# FIGURE 1

# Amino acid sequence for full length human wild type EPHA2 [SEQ. ID No. 1] (Residues 596-900 are underlined)

	MELQAARACFALLWGCALAAAAAAQGKEVVLLDFAAAGGELGWLTHPYGK	50
	GWDLMQNIMNDMPIYMYSVCNVMSGDQDNWLRTNWVYRGEAERNNFELNF	100
	TVRDCNSFPGGASSCKETFNLYYAESDLDYGTNFQKRLFTKIDTIAPDEI	150
	TVSSDFEARHVKLNVEERSVGPLTRKGFYLAFQDIGACVALLSVRVYYKK	200
	CPELLQGLAHFPETIAGSDAPSLATVAGTCVDHAVVPPGGEEPRMHCAVD	250
	GEWLVPIGQCLCQAGYEKVEDACQACSPGFFKFEASESPCLECPEHTLPS	-300
	PEGATSCECEEGFFRAPQDPASMPCTRPPSAPHYLTAVGMGAKVELRWTP	350
	PQDSGGREDIVYSVTCEQCWPESGECGPCEASVRYSEPPHGLTRTSVTVS	400
	DLEPHMNYTFTVEARNGVSGLVTSRSFRTASVSINQTEPPKVRLEGRSTT	450
	SLSVSWSIPPPQQSRVWKYEVTYRKKGDSNSYNVRRTEGFSVTLDDLAPD	500
	TTYLVQVQALTQEGQGAGSKVHEFQTLSPEGSGNLAVIGGVAVGVVLLLV	550
	LAGVGFFIHRRRKNQRARQSPEDVYFSKSEQLKPLKTYVDPHTYEDPNQA	600
	VLKFTTEIHPSCVTRQKVIGAGEFGEVYKGMLKTSSGKKEVPVAIKTLKA	650
:	GYTEKQRVDFLGEAGIMGQFSHHNIIRLEGVISKYKPMMIITEYMENGAL	700
	DKFLREKDGEFSVLQLVGMLRGIAAGMKYLANMNYVHRDLAARNILVNSN	750
	LVCKVSDFGLSRVLEDDPEATYTTSGGKIPIRWTAPEAISYRKFTSASDV	800
	WSFGIVMWEVMTYGERPYWELSNHEVMKAINDGFRLPTPMDCPSAIYQLM	850
	MQCWQQERARRPKFADIVSILDKLIRAPDSLKTLADFDPRVSIRLPSTSG	900
	SEGVPFRTVSEWLESIKMQQYTEHFMAAGYTAIEKVVQMTNDDIKRIGVR	950
	LPGHQKRIAYSLLGLKDQVNTVGIPI	976

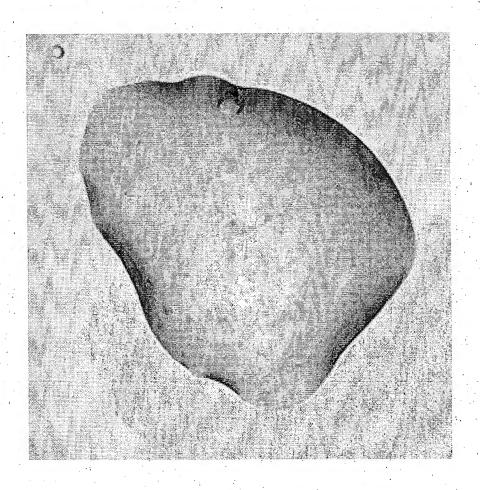
#### Human cDNA sequence encoding residues 596-900 of EPHA2 [SEQ. ID No. 2]

GACCCCAACCAGGCTGTTGTAAGTTCACTACCGAGATCCATCC	3 <sup>°</sup>	50
TGTCACTCGGCAGAAGGTGATCGGAGCAGGAGAGTTTGGGGAGGTGTAC	A	100
AGGGCATGCTGAAGACATCCTCGGGGAAGAAGGAGGTGCCGGTGGCCATG	<u></u>	150
AAGACGCTGAAAGCCGGCTACACAGAGAAGCAGCGAGTGGACTTCCTCGG	G .	200
CGAGGCCGGCATCATGGGCCAGTTCAGCCACCACAACATCATCCGCCTAG	3	250
AGGGCGTCATCTCCAAATACAAGCCCATGATGATCATCACTGAGTACATC	3	300
GAGAATGGGGCCCTGGACAAGTTCCTTCGGGAGAAGGATGGCGAGTTCA	3	350
CGTGCTGCAGCTGGGGCATGCTGCGGGGCATCGCAGCTGGCATGAAG	Г	400
ACCTGGCCAACATGAACTATGTGCACCGTGACCTGGCTGCCCGCAACAT	Z ·	450
CTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCCTGTCCCC	G	500
CGTGCTGGAGGACGACCCCGAGGCCACCTACACCACCAGTGGCGGCAAG	A	550
TCCCCATCCGCTGGACCGCCCCGGAGGCCATTTCCTACCGGAAGTTCAC	<b>C</b> :	600
TCTGCCAGCGACGTGTGGAGCTTTGGCATTGTCATGTGGGAGGTGATGA	C,	650
CTATGGCGAGCGGCCCTACTGGGAGTTGTCCAACCACGAGGTGATGAAA	Э., "	700
CCATCAATGATGGCTTCCGGCTCCCCACACCCATGGACTGCCCCTCCGC	C ,	750
ATCTACCAGCTCATGATGCAGTGCTGGCAGCAGGAGCGTGCCCGCCGCC	C ·	800
CAAGTTCGCTGACATCGTCAGCATCCTGGACAAGCTCATTCGTGCCCCT	G .	850
ACTCCCTCAAGACCCTGGCTGACTTTGACCCCCGCGTGTCTATCCGGCT	$\mathbb{C}^{-1}$	900
CCCAGCACGAGCGGC	•	915

# Amino acid sequence for residues 596-900 of EPHA2 with a cleavable (rTev) N-terminal 6x-histidine tag [SEQ. ID No. 3] (6x-histidine tag and cleavage site are underlined)

MSYYHHHHHHDYDIPTTENLYFQGAMGSDPNQAVLKFTTEIHPSCVTRQK	50
VIGAGEFGEVYKGMLKTSSGKKEVPVAIKTLKAGYTEKQRVDFLGEAGIM	100
GQFSHHNIIRLEGVISKYKPMMIITEYMENGALDKFLREKDGEFSVLQLV	150
GMLRGIAAGMKYLANMNYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDD	200
PEATYTTSGGKIPIRWTAPEAISYRKFTSASDVWSFGIVMWEVMTYGERP	250
YWELSNHEVMKAINDGFRLPTPMDCPSAIYQLMMQCWQQERARRPKFADI	300
VSILDKLIRAPDSLKTLADFDPRVSIRLPSTSG	333

# FIGURE 2



# FIGURE 3A

#### **LEGEND**

Column headings from left to right are (A) 'Atom Number', (B) 'Atom Type', (C) 'Amino Acid', (D) 'Chain Identifier', (E) 'Amino Acid Number', (F) 'X Coordinate', (G) 'Y Coordinate', (H) 'Z Coordinate', (I) 'Occupancy' (OCC) and (J) 'B factor'.

A	В	С	D	E	٠	, F	G	H :	I.	. J.
1	N	ALA	Α	605		47.239	45.529	67.448	1.00	51.83
2	CA	ALA				46.929			1.00	52.40
. 3	· CB	ALA		9 4		45.751	44.876	65.490	1.00	
4	Ç	ALA	Ą	605		46.433	47.259	66.307	1.00	
5	0	AĻA	Α	605		46.252	47.630	67.422	1.00	52.61
6	N	THR	A	606		46.218	48.048	65.302	1.00	51.19
7 -	·CA	THR	A	606		45.719	49.337	65.564	1.00	49.98
8	СB	THR	Α	606		46.128	50.120	64.454	1.00	48.98
. 9	OG1	THR	À	606		47.553	50.041	64.401	1.00	50.88
10-	CG2	THR	Α	606		45.766	51.541	64.651	1.00	48.25
11	Ċ	THR	Α	606		44.201	49.397	65.650	1.00	50.57
12	Ο.	THR	Α	606		43.487	48.868	64.787	1.00	51.60
. 13	N	GLU	Α	607		43.680	50.086	66.646	1.00	49.68
14	CA	GLU	Α	607		42.264	50.182	66.717	1.00	47.97
15	CB	GLU	Α	607		41.796	50.123	68.130	1.00	47:41
16	CG	GLU	·A	607		40.323	50.414	68.279	1.00	50.07
17	CD.	GĿŲ	Α	607	٠.	39.394	49.230	68.074	1.00	39.82
18	OE1	$\cdot \text{GLU}$	A	607		39.796	48.072	68.195	1.00	38.52
19	OE2	GLU	Α	607		38.260	49.515	67.856	1.00	41.61
20	C	GLU	Α	607		41.841	51.347	65.971	1.00	48.16
21	Ò,	GLU	ͺĄ	607		42.392	52.398	66.162	1.00	48.74
22	N	ILE	A	608		40.955	51.146	64.963	1.00	50.14
23	CA	ILE	A	608		40.531	52.309	64.228	1.00	49.42
24	СB	ILE,	Α	608		41.128		62.742	1.00	51.19
25	CG1	ILE	A	608		40.066		61.752	1.00	49.45
2.6	CD1	ILE	Α	608		39.259	51.726		1.00	60.72
27	CG2	ILE	Α	608		42.168	51.494	62.300	1.00	47.67
2,8	C.	ILE	Α	608		39.135	52.787	64.481		51.43
29	0	IĻE	À	608		38.254	52.049	64.879	1.00	•
30	N			609		38.983		64.361		53.40
31	CA			609		37.727	54.745	64.674	1.00	55.30
32	CB			609		37.938	56.203	65.196		57.26
33	CĢ			609		36.715	56.776	65.835		60.02
34	ND1			609		36.486	56.686	67.186	1.00	
3.5	ÇĘ1			609		35.313	57.221	67.471		62.48
36	NE2	HIS		609		34.764	57.635	66.348		63.53
37	CD5			609	•	35.606	57.345	65.301	1.00	62.09
38	C			609		36.701	54.718	63.557	1.00	53.34
39	0			609		36.943	55.109	62.474		55:03
40	N			610		35.517	54.263	63.854	1.00	
41	CA.			610		34.533	54.113	62.805		53.20
. 42	CB			610		33.246	53.864	63.591	1.00	
43	CG;	PŖO	A	610	8	33.753	53.087	64.713	1.00	50.94

Α	В	C	D ·	E			F	G	H		I	. J	
4.4	CD	PRO	Α	610			35.069	53.682	65.133		1.00	52.08	
45	C			610			34.421	55.273	61.903			52.69	
46	0			610	,		33.935	55.146	60.793			55.21	
47 .	N	SER				- 00	34.789	56.418	62.391			52.17	
48	CA			611			34.546	57.584	61.639		1.00		
49	СВ			611	,		34.694	58.833	62.562			54.93	
50	OG			611			35.822	58.723	63.443			49.81	
51	Ç			611	٠.		35.579	57.611	60.552			52.77	
52	0			611			35.394	58.256	59.545		1.00		
53	N			612			36.679	56.915	60.701			49.87	
54	CA			612			37.633	57.083	59.642			51.06	
55	ĊВ			612			39.044	56.889	60.169		1.00		
56	SG			612		٠.	39.193		61.702			55.75	
57	C	•		612			37.445		58.426				
58	0			612		;	38.215	56.286	57.479		1.00		
59	N			613			36.470	55.349	58,497			49.20	
60	CA	VAL					36.329	54.361	57.471			48.42	
61	СB			613	<i>.</i> *		36.130	52.976	58.087			49.58	
62		VAL					35.493	52.026	57.030		1.00	46.32	
63		VAL					37.477	52.423	58.651			46.61	
64	Ç			613			35.039	54.652	56.779			47.49	
65	: 0			613			34.080	55.078	57.401			46.54	
66	N			614			34.976	54.426	55.496			46.87	
67	CA			614			33.674	54.449	54.961			47.76	
68	CB			614			33.230	55.839	54.547			48.10	
69		THR					32.501	55.759	53.312			53.74	
70	CG2			614			34.430	56.804	54.383			48.56	
71	C			614			33.479	53.362	53.956			47.36	
72	0			614			34.145	53.317	52.971			49.44	
73	N			615			32.519	52.496	54.192			46.37	
74		ARG				٠.	32.356	51.360			1.00		
75	CB			615			31.323	50.464	53.993		1.00		
76	ÇĢ			615			31.817	49.366				44.82	
77	CD	3 .		615			30.699	48.434	55.297			45.58	
78	NE.			615			29.827	49.226	56.142			49.04	
79	CZ			615			29.151	48.769	57.151			51.81	
80	NH1			615		• •		47.437				50.76	
81	NH2			615			28.473		57.883	-		51.85	
82	C.			615			31.694	51.886	52.150			45.54	
83	0			615			30.737	52.603	52.357			47.25	
84	N			616			32.035	51.399	50.944			45.88	
85	CA			616			31.366	51.824	49.681			46.97	
.86	CB			616			32.323	52.657	48.734			47.24	
87	CG			616			33.258	53.608	49.475			49.82	
88	CD			616			34.200	54.437	48.588			55.54	
89	OE1			616			35.203	53.909	48.073			56.72	
90	NE2			616		•	33.889	55.770	48.428			56.72	
91	·C			616			30.597	50.752	48.848			46.63	
92	Q Q			616			29.448	50.732	48.361			48.68	
93	N			617			31.167	49.598	48.363			44.77	
93 94	CA			617			30.497	49.598	47.857			44.77	
9 <del>4</del> 95							30.497	•					-
20	CB	nχο	А	617			30.032	48.787	46.331	+	1.00	44.70	1

A	В	C	D	Е		•	F		G .	**	H	I ·	. J
96	CG	LYŞ	Ą	617			32.39	9	48.959	45	944	1.00	48.09
97	ÇD	LYS	A	617			32.76	8	48.759	44	391	1.00	58.41
98	CE	LYS	Α	617			34.28	5	49.300	44	.085	1.00	60.72
99	NZ	LYS	Α	617		*	35.07	3	48.944	42	813	1.00	59.09
100	Ċ	LYS	A	617			31.01	9	47.331	48	.370	1.00	43.38
101	Q -	LYS	Α	617			32.13		47.297		.834	1.00	42.92
102	N	VAL	Α	618		٠.	30.12		46.333		.379		42.86
103	CA	VAL	Α	618	•		30.37		44.945		. 657		41.23
104	СВ			618		3	29.07		44.146		.522		39.95
105	CG1	VAL	A	618			29.42	6	42.622				40.13
106	ÇG2	VAL	A	618			28.14		44.503	49	.610		42.60
107	С	VAL	Α	618	•	. •	31.20		44.381				40.46
108	0	VAL	A	618	1	٠	30.85		44.667		.392		42.70
109	N	ILE	Α	61,9			32.23		43.567		.809		37.69
110	CA	ILE	Α.	619			33.05				.731		33.98
111	CB ·	ΙLΕ	Α	619			34.52	1	43.786	46	495		36.65
112	CG1	ILE	Α	619			35.58		43.320		.540		31.94
113	CD1	ILE	A	619		;	36.38		44.380	48	.493		29.73
114	CG2	ILE	Α	619			34.38	Q.	45.336	46	.302		31.41
115	C	ILE	Α	619			33.35	7	41.588	46	.995	1.00	33.91
116	0	ILE	Α	619		:	34.18	5	41.024	46	280		35.83
117.	N	GLY	Α	620			32.75	2	40.970	47	.989	1.00	32.82
118	ÇA	GLY	Α	620			33.03	9	39.577	48	.271		32.89
·119	Ç	GLY	A	620			32.37	3	39.194	49	. 553	1.00	32.89
120	. 0	GLY	Α	62,0			-31.71	4.	39.949	50	.177	1.00	30.70
121	N	ALA	Α	621			32.51	1	37.954	. 49	897	1.00	34.15
	'CA	ALA	Α	621			31.81		37.384	51.	.019	1.00	35.78
123	CB			621			30.77				. 533	1.00	35.84
124	C			621			32.83		36.551		.687		37.56
125	0			621			33.49		35.782		.007		39.38
126	N			622			33.02		36.691		.986		38.91
127	CA			622			34.00		35.848		611		38.65
128	C .	GLY					33.39		34.928		.575	1.00	
129	0:	GLY					32.17		34.902		.796	1.00	
130	N			623			34.29		34.225		.272		41.01
131	CA			623		•	33.84		33.363		. 342		41.61
132	CB			623	•		35.04		32.793			1.00	
133	CG	GLU					34.68		31.885		.223	1.00	
134	CD.	GLU					.35.83		31.063		.780		65.56
135		GLU					36.96		31.030		.200		64.79
136	OE2	GLU							30.422		.836		72.34
13.7	C	GLU					32.96		34.088		.417		40.39
138		GLU					32.05		33.457		.987		38.12
139	N			624	-		33.26		35.347		.758		37.75
140	CA	PHE					32.52		35.965		.889		36.41
141	CB			624		- 0	33.50		36.538		. 933		37.60
142	CG			624	•		34.59		35.546		.354		34.22
	CD1			624			34.28		34.584		.169		32.75
144	CE1			624			35.25		33.643		527		42.16
145	CZ			624		-	36.56		33.666		.022		37.78
146	CE2	PHE					36.86		34.594		168		37.66
147	CD2	PHE	. A	0∠4			35.86	Ť,	35,571	59.	.805	T.00	37.30

	A	В	Ċ	Ď	E	, •	. 1	₹		G		H .	I	J
	148	Ç	PHE	A	624		31.5	569 ·	<b>37.</b>	066	58.	.437	1.00	35.68
	149	0	PHE	Α	624		30.8	375	37.	739	59.	.261	1.00	36.44
	150	N	$\operatorname{GLY}$	Ą	625	•	31.5	557	37.	336	57.	140	1.00	35.15
	151	CA	GLY	Α	625		30.7			445	56	.714	1.00	32.08
	152	C			625		31.1			011	55.	.423	1.00	32.29
	153	0	GLY			• '	32.1	L77	38.	633		. 858	1.00	32.00
	154	N	GLU				30.4			990		.988	1.00	33.82
	155	CA	GLU				30.7			519		. 695	1.00	37.80
	156	CB '	GLU				29.5			289		.103	1.00	36.83
	157	CG			626			396				.839		42.38
	158	CD	ĢĻŪ			•	27.3			941		.992		45.04
	159	OE1	GLU			. • •		289		680		.777	1.00	47.93
٠.	160	OE2	GĻU			•	26.6			773		.553		43.41
	161	C	ĢLU				31.8			377		719	1.00	37.16
	162	0	GLU				32.2			878		.803	1.00	
	163	N			627		32.4			552		.508		35.91
	164	CA			627		33.			268		392		34.05
	165	CB	VAL			• •	34.8			340		.861		36.58
	166		VAL				36.2			135		.691	1.00	30.17
	167	CG2	VAL				34.9					.740	1.00	33.27
	168	O.	VAL				33.3			380		461	1.00	
	169 170	N	VAL TYR				32.6			157		.568	1.00	31.95
	171	CA	TYR	- ,-			33.9			575. 746		. 680		33.62
	1.72	CB	TYR				33.6 32.8					.948	1.00	33.35
	173	СĞ	TYR				31.5			766		. 894	1.00	
	174		TYR				31.3			398 529		.411 .497	1.00	
	175		TYR			•	30.0			215		. 497 . 976	1.00 $1.00$	34.62 36.28
	176	CZ.	TYR					935		759		.348	1.00	39.83
	177	OH	TYR					63 <b>4</b> .				748	1.00	41.33
	178	•	TYR				29.0			582		266	1.00	43.12
	179	CD2	TYR				30.3			941		826	1.00	40.98
	180	C			628		34.8			407		597	1.00	33.72
	181	0	TYR				35.9			184		.223	1.00	35.69
	182	N	ĹYS				34.			365		743	1.00	33.77
	183	ÇA	Ļ¥S				35.7			236		369	1.00	36.45
	184	CB			629		35.6			688		939	1.00	36.34
	185	CG	LYS-	Α	629		36.6			598		624	1.00	41.68
	186	CD	LYS	Α	629	٠.,	36.2	232		858	47.	072		45.46
	187	CE	LYS				37.4			809		890	1.00	
	188	NZ	LYS	Α	629		36.9	962		283		736		49.95
	189	, C	LYS	Α	629		35.4	440	49.	455		046		37.55
	190 ·	Ö	LYS	Α	629		34.2	298	49.	740	50	.227		37.87
	191	N	GĹY	A	630		36.4	115	50.	286	50.	355	1.00	41.21
	192	CA	GLY			-	36.0	010	51.	559	50.	.912	1.00	
	193	C	GLY						52.	450	51.	.067 `	1.00	
	194	Ο.	$\operatorname{GLY}$				38:2			287	50.	392	1.00	45.71
	1,95	N	МЕТ			<b>7</b> .	37.0			363	52.	800	1.00	46.92
	196	CA			631		38.0			443		136 .		48.84
	197	CB	MET				37.3			734		608		49.65
	198	CG	MET				37.1			731		.070	1.00	51.92
	199	SD	MET	Α	631		38.7	727	55.	249	49.	.171	1.00	57.95
,										2				

A.	В	C	D	. E			-	F	G		Н	I	J
200	CE	MET	A	631			39.	478	56.799		48.727	1.00	56.76.
201	C	MET	Ą	631	· '.		38.	379	54.619		53.587	1.00	49.23
202	0 -	MET					37.		54.616		54.462	1.00	
203	N	LEU	Α	632		•	39.		54.667		53.828		47.01
204	CA	LEU	Α	632			40.	144	54.951	. :	55.148		48.50
•	СŖ	LEU.					41.		53.954		55;531	1.00	
206	CG	LEU						924	54.217		56.805	1.00	
207	CD1	LEU					40.		53.899		57.902	1.00	
208		LEU					43.		53.311		56.944	1.00	
209	Ç.	LEU					40.		56.425		55.221		-
210	0	LEU			•	٠.	41.		56.932		54.323	1.00	
211	N	ALA					40.		57.138		56.256	1.00	
212		ALA				-	40.		58.465		56.388	1.00	
213		ALA	-					848	59.562		56.836	1.00	
214 215	C O :	ALA ALA					41.	842	58.189 57.920		57.445 58.493	1.00	
215	N	ALA					43.		58.194		57.224		
217	CÅ	ALA					43.		57.980		58.415		57.84 61.35
218	ÇB	ALA					45.		57.774		58.115	1.00	
219	C .			634		9	43.		59.263		59.222	1.00	
220		ALA					44.		60.208		58.850		64.38
221	N			638		-	43.		64.048		56.993	1.00	
	CA.	ALA			•	;		752	64.060		56.359	1.00	
223	CB	ALA					45.		63.305		57,237		78.95
224	C			638			44.		63.605		54.872	1.00	, ,
225	0	ALA						141	64.402		54.006	1,00	
226	N		-	639				531	62.334		54.589	1.00	•
227	CA-			639			44.		61.761		53.238		77.38
228	CB -	ALA	Α	639		•	46.	119	61.531		52.875	1.00	
229	C			639			43.	843	60.408		53.247	1.00	75.52
230	0	ALA	Α	63,9			44.	050	59.569		54.155	1.00	75.87
231	N	GLU					42.		60.248		52,273	1.00	71.51
232	CA	GĻŲ					41.		59.139		52.171		66.84
233	CB			640			40.		59.599		51.433		66.51
234	CG			640			39.		58.732		51.713		68.84
235	CD	,		640		:		106	59.433		51.585	1.00	
236	OE1	GLU					37.		60.052		50.511		71.60
237	OE2	GLU			•		37.		59.351		52.561	1.00	
238	C	GLU						571	58.052		51.379		63.66
239 240	O N	GLU		641				179	58.300 56.821		50.363 51.807		64.69 60.16
241	CA	VAL			-			028	55.721		51.100		55.19
242	CB			641				352	55.368		51.777		54.62
243		VAL						223	54.272		52.749		50.91
244		VAL			•		45.		55.043		50.767		56.67
245	C			641				102	54.570	-	50.931		52.53
246	0			641	*			378	54.194		51.812		55.11
247	N			642				105	53.989		49.767		51.34
248	CA			642				271	52.776		49.477		47.14
249	СВ			642				664	52.399		48.064		47.64
250	CĢ			642				633	53.493		47.544		50.33
251	CD	PRO	Α	642			42.	943	54.475		48.637	1.00	50.56

A	B,	- C	D	E			F	G ,	н	ı,I	. J
0.5.0	_		_	- 4 -							
252	C .	PRO			•		41.625	51.589	50.367		45.19
253	Q			642		-	42.816	51.373	50.765		44.61
254		VAL					40.636	50.779	50.710		40.92
255	CA	VAL					40.925	49.716	51.646		37.39
256	CB	VAL					40.652	50,209	53.117	1.00	
257	CG1	VAL	Α	643			41.889	50.869	53.733	1.00	39.75
258	CG2	VAL					39.377	51.186	53.225	1.00	32.90
25 <b>9</b>	C	VAĻ	Α	643			39.921	48.664	51.373	1.00	36.92
260	0	VAL	A	643			38.827	48.941	50.848	1.00	38.74
261.	N	ALA	Α	644			40.226	47.464	51.769	1.00	34.90
262	CA.	ALA	Α	644			39.217	46.411	51.722	1.00	34.08
263	CB	ALA	Α	644	150		39.858	45.092	51.412	1.00	31.97
264	С	ALA.	A	644	٠.		38.726	46.373	53.179	1.00	35.58
265	0	ALA	Α	644			39.526	46.712	54.096	1.00	30.86
266	N	ILE	Α	645			37.443	45.968	53.393	1.00	36.25
267	CA			645			36.922	45.950	54.744	1.00	
268	CB			645			35.932	47.080	54.876		35.85
269		ILE					36.577	48.336	54.488		37.94
270	CD1			645	2.		35.489	49.480	54.224		39.26
271	CG2			645			35.314	47.127	56.304	1.00	32.71
272	C			645			36.201	44.682	55.066	1.00	
273	0.	ILE					35.113	44.491	54.584		36.64
274	N			646		:	36.714	43.846	55.922		34.87
275	CA			646			36.008	42.632	56.289		38.18
276	CB	•		646			37.040	41.499			
277	CG .								56633		39.75 44.65
278				646			37.905 38.718	41.096	55.427		
. 1		LYS				•		39.873	55.721		47.74
· 279 ·280								38,957	54.557		56.44
	NZ			646			40,016	39.325	53.698		67.82
281	C			646			35.078	42.871	57.482		37.98
282	0	-		646			35,524	43.217	58.526	1.00	
283	N			647			33.779	42.703	57.344		38.53
284	CA .			647			32.898	42.869	58,518	1.00	
285	CB			647	. • •		31.620	43.563	58.086		35.95
286		THR			•		30.886	42.779	57.136		31.75
287	CG2			647			31.977	44.751	57.224	1.00	
288	C			647			32.581	41.580	59.205	1.00	35.41
289	0			647			32.741	40.482	58.693	1.00	
290	N	·LEU					32.208	41.704	60.429		35.38
291	.CA			648			31.915	40.572	61.187		37.01
292	CB ·			648				40.708	62.523		36.29
293	CG			648			32.176	39.634			34.38
294	CD1	LEU					32.349	38.265	63.066.	1.00	33.21
295	CD2	LEU	A	648		ż	32.938	39.707	64.670	1.00	38.96
296.	С	LEU	Α	648			30.383	40.645	61.334	1.00	39.65
297	0			648			29.873	41.630	61.869		41.32
298	N	LYS	A.	649			29.631		60.813	100	39.93
299	CA			649			28.175	39.764	60.832	1.00	38.04
300	CB	LYS	Α	649			27.610	38.564	60.128	1.00	38.58.
301	CG.	LYS	Α	649			27.766	37.309	60.890		38.14
302	CD	LYS	Α	649		•	27.679	36.238	59.889	1.00	35.47
303	CE	LYS	Ą	649			27.535		60.524		35.35
			•					•			

Α	В	Ç.	D	E			F.	G	Н	I	J
304	NZ	LVS	A	649		27	.499	33.710	59.600	1 00	36.16
305	C			649			. 630	39.998			38.13
306	0		••	649			.217	39.517	63.181		38.78
307	N			650			.642	40.900	62.370		38.37
308	CA			.650			.009	41.267	63.688		38.30
309	· CB			650			.721	41.954	63.443		37.99
310	Ć.			650		25	.680	39.928			38.32
311	0			650		25	.410	39.138	63.320		40.75
312	N			651			.632	39.138	65.416		35.55
313	CA			651	*		.195	38.071	65.179		36.67
314	C			651			171	36.916	65.234		33.22
315	0			651			.899		65.646		30.70
316	N			652			.390	37.294	65.039		34.28
317	CA.			652			.455	36.416	65.446		36.25
318	CB			652			.684		65.494		38.05
319	CG			652				38.292	66.484		38.76
320	CD1			652				38.086			36.74
321	CE1			652				39.091		1.00	
322	CZ			652			.778	40.325			40.27
323	OH			652			.893	41.245			42.40
324	CE2			652			.178				34.15
325	CD2			652				39.556	66.141		38.47
326	C			652			.386	35.850	66.803		35.31
327	0	TYR					.919		67.696		34.45
328	N			653			.961	34.652			35.94
329		THR					.209	33.999			36.94
330	CB			653			.248	32.522	68.183		37.69.
331	OG1			653			.427				40.83
332	CG2			653			.007	31.792	67.363		32.24
333	C			653			.595	34.418	68.718	1.00	
334	Ö			653	*		.347	34.985	68.015		37.03
335		- GLU					.831		69.998		37.12
336	CA			654	•		.094	34.484	70.674		37.20
337	CB			654			.0.74	33.802	72.025		34.84
338	CG			654	•		.380		72.705		44.32
339	CD			654			.571	35.731	72.609		48.08
340	OE1			654			.591		72.366		54.40
341	OE2			654			.675	36.206	72.771		46.32
342	C			654			.316	33.880	69.890		35.96
343	0 -			654			.306	34.579	69.620		33.58
344	N			655			.161	32.605	69.577		35.57
345	CA			655			.030	31.857	68.747		39.28
346	СВ			655			.532	30.394	68.482		39.74
347	CG			655			.682	29.481	68.003	1.00	
348	CD	LYS	Α	655			.375	28.446	66.854		53.64
349	CE			655			.674		66.374		58.92
350	NZ			655		37	.147	28.174	66.350		58.41
351	C	LYS	A	.655		34	.326	32.574	67.379		38.72
352	0 '			655	٠,	. 35	.481		67.012		41.81
353	N.			656			.329	33.111	66.678		35.08
354	CA			656	•		.583	33.809		1.00	36.08
355	CB	GLN	A	656		32	.355	34.070	64.590	1.00	32,82

A	В	C	Þ	Ę			F	G	Н	ı, I	J
356	CG	GLN	Α	656	•	3	1.709	32.793	64.216	1.00	35.27
357	CD	GLN					0.255	32.982			37.96
358	OE1	GLN				2	9.471	33.846	64.157	1.00	30.18
359	NE2	GLN	Α	656		2	9.948	32.217	62.693	1.00	42.57
360	C :	GLN	Α	656	•	3	4.305	35,111	65.659	1.00	35.54
361	Ò	GLN				3	5.196	35.485	64.899	1.00	35.47
362	Ņ	ARG	Ā	657			3.951	35.722	66.760		
363	CA	ARG					4.557	36.985			39.00
364	,CB	ARG					3.923				37.06
365	CG	ARG					4.401	38.841			
366	CD.	ARG					4.033	39:137			•
367	NE	ARG					4.843	-			
368	ÇZ	ARG			e • :		5.982				
369		ARG	:				6.451				-
370. 371	NH2 C	ARG ARG			ē . ,		6.616		71.556		55.48
372							6.017 6.826				38.95
373	N.	ARG VAL					6.331				37.52 42.72
374	CA	VAL			-		7.722	35.481			
375	CB	VAL					7.957				
376		VÀL					9.291	33.787			
377	CG2	VAL			٠,		7.935				49.98
378	C.	VAL		658			8.449				
379	0	VAL		658			9.466				
380	N			659			7.913				
381	CA	ASP					8.561	,			
382	CB	ASP	Α	659		3	7.891	32.498	64.307	1.00	41.26
383	CG .	ASP	A	659		-3	7.826	31.278	65.177		45.94
384	OD1	ASP	Α	659		3	7.109	30.301			46.31
385	OD2	ASP					8.451				
386				659	:		8.683	34.857			39.97
387	0			659			9.687	35.012			
388.	N.			660			7.703	35.756			38.73
389	CA			660			7.765	•			39,49
390	CB.			660			6.385	37.556		-	
391 392	CG CD1			660			6.343				
393	CD1 CE1	PHE PHE		660 660			6.342 6.323	40.047		1.00	32.33 28.65
394	CZ		,	660			6.136	41.248			24.95
395		PHE					6.059				28.98
396		PHE					6.099				32.15
397	C			660	200		8.897				39.32
398		PHE					9.584				38.41
399	N			661			9.061				40.15
400	CA			661			0.011				42.07
401	CB			661	· · ·		9.711				43.38
402	CG			661			8.437				43.55
403	- CD1	LEU	Ą	661		3	8.306	41.372			39.97
404	CD2			661			8.580				37.68
405	Ċ			661			1.347				41.94
406	Ó			661			2.340				41.62
407	N	GLY	Α	662		. 4	1.349	37.252	65.485	1.00	39.75

	Α	В	С	Ď	E			F.	G	. Н	i, i	J.
	408	CA	GLY	Α	662		42	.603	36.635	65.570	1.00	40.93
	409	С	GLY					.418	36.757	64.273		43.18
	410	0	GLŸ					.590	37.160	64.286		42.86
	411	N	GLU	·A	663		42	.779	36.439	63.154		42.57
	412	CA	GLU	Α	663.		43	.393	36.553	61.894		42.39
	413	CB .	GLU	Α	663		42	.379	36.281	60.792		44.11
	414	CĢ	GLU	A	663		42	.829	36.991	59.480		48.03
	415	CD	GLU	Α	663		42	.396	36.230	58.234	1.00	54.58
	416	OE1	GLU	Α	663		. 41	.241	35.605	58.330	1.00	52.44
	417	OE2	ĠĿŪ	Α	663			3.208	36.292	57.213	1.00	53.06
	418	Ç	GĽU	A	663		43	.976	37.968	61.741	1.00	40.61
	419	0	GLU	Α	663	•		.090	38.192	61.213		37.63
-	420	N ·	ALA	Α	664		43	.273	38.944	62.230	1.00	38.99
	421	CA	ALA				43	.939	40.237	62.062		40.23
	422	ĊВ			664			2.965	.41.347	62.358		
•	423	Ç	ALA			. ·		.114	40.278	63.055	1.00	39.40
	424	0	ALA	Α	664		46	5.136	40.873	62.831		39.10
	425	N·	GLY	Α	665		44	.989	39.570	64.138	1.00	38.27
	426	CA	GLY	Α	∙665		46	.087	39.586	65.064	1.00	42.63
	427	Ċ	GLY				47	.347	39.076	64.355	1.00	44.59
	428	0	GLY	A	665		4 8	3.410	39.610	64.610	1.00	45.78
	429	N	ILE					7.200	38.070	63.464	1.00	
	430	CA	ILE	·A	666	•		3.295	37.277	62.941		42.46
	431	CB	ILE	Α	666			7.627	36.023	62.510	1.00	44.08
	432	CG1	ILE	À	666			.247	35.276	.63.731	1.00	42.77
	433	CD1			666		46	5.394	34.096	63.279	1.00	43.64
	434	ÇG2			666.		48	3.406	35.006	61.565	1.00	42.50
	435	С			666			3.846	38081-	61.853		41.32
	436	Ο.			666		49	9.986	38.330	61.798		.41.39
		Ν.	MET					.988	38.726	61.143		41.98
	438	CA	MET					3.371	39.417	59.971		41.72
	439	CB	MET					7.073 <sub>.</sub>	39.871	59.303	1.00	
	440	CG	MET					1.154	40.885	58.149		41.60
	441	SD			667			.384	40.798	57.345		
	442	CE	MET.					1.917	39.215			44.36
	443	C	MET	•				1.155	40.575	60.497		42.65
	444	0	MET					0.088	41.128	59.816	1.00	
	445	N	ĢLY				-	3.790	40.953	61.734		42.74
		CA	GLY					3.348	42.203	62.310		42.47
	447	C			668			.820	42.083			40.74
	448	0	GLY					552	43.010	62.772		39.44
	449	Ņ	GLN					.241	40.861	62.790		40.10
	450	CA	GLN					2.563	40.577	63.149		40.54
	451	CB	GLN					2.547	39.193	63.729		39.50
	452		GLN					2.011	39.318	65.065		43.35
	453	CD			669			1.833	37.999	65.772	1.00	
	454	OE1	GLN					7.716	37.616	66.048		59:36
	455 456	NE2	GLN			٠.		2.917	37.334	66.121		57.56
	456 457	C	GLN					6.472	40,657	61.955		41.95
	457	O			669			1.683	40.622	62.152		41.00
	458 459	N CA			670. 670			2.922	40.908	60.729		40.25
	409	CA	LUE	H	0/0		5.5	3.738	40.932	59.578	T.00	38.18

Α	В	С	Ď	E			F		Ġ		Н	I	J
460	CB	PHE	Α	670		53.	.159	40.	016	58	.570	1.00	40.10
461	CG	PHE	Α	670		52.	.990	38.	623	59	.105	1.00	35.26
462	CD1	PHE	Α	670		51.	.962	37.	897	58	.751	1.00	33.32
463	CE1	PHE	Α	.670		51.	.803	36.	621	59	.214	1.00	
464	CZ	PHE	Α	670		52	720	36.	032	59	976	1.00	36.73
465	CE2	PHĒ	Α	670		53.	.818	36.	749	60	.310	1.00	40.51
466	, CD2	PHE	Ą	670			.948	38.	063	59	.833	1.00	37.75
467	C	PHE	Α	670	· • • • • • • • • • • • • • • • • • • •		.941		231		974	1.00	39.07
468	0	PHE			* .		.038		044		.012	1.00	37.82
469	N			671			170		491		. 485	1.00	37.93
47.0	CA	SER					.327		719		.712	1.00	39.08
471	СВ			671			.937		825		. 533		40.17
47:2	OG	•		671			915		032		. 754	1.00	
473	C			671			.231		445		.466		41.33
474	0			.671	. *		.490		349		. 554		38.64
475	N	HIS					.586		358		. 295		42.48
476	CA			672			279.		870		.089		42.62
477	CB	HIS					.565		391		.190		42.23
478	CG	HIS			`;		.524		981		.156	1.00	
479	ND1	HIS					142		782		. 825		
480	CE1	HIS					240		523		.126	1.00	
481	NE2	HIS			m ·		.289		519		949	1.00	
482		HIS					.874		826		. 214		45.01
483	C	HIS					.513		134				42.33
484 485		HIS					.388 .192		761		.732	1.00	41.57
485	N	HIS		673	- 1		.192		697		.819 .553	1.00	42.80
487	CA CB	HIS			9-d		.722						42.36 38.97
488	CG			673			. 262		939		.249		46.80
489		HIS					.503		087		.211	1.00	
490		HIS					.348		487		.956	1.00	
491	NE2	HIS					.959	•	613		.172	1.00	
492	CD2	HIS					.496		606		.944	1.00	
493	·C			673			.523		167		.883	1.00	
494	ō			673			.543		601		.310		42.61
495	N			674			.764		917		.005		36.25
496	CA			674			.035				.374		38.32
497	СВ			674	• .		.074		876		.740		39.80
498	CG	ASN	Α	674	٠.		.870		509		.607		36.97
499		ASN					.321		897		.582		35.65
500	ND2	ASN	Α	674			.139	40.	728		.847		37.21
501	.C	ASN	Α	674		53	.281	40.	177	50	.440	1.00	38.05
502	0	ASN	Α	674		53	.058	38.	944	50	.288	1.00	37.79
503	Ņ	ILE	Α	675		52	.996	40.	886	51	. 586	1.00	38.03
504	CA	ILĒ	Α	675		52	.081	40.	325	52	.641	1.00	36.57
. 505	СB	ILE	·A	675		52	790		111		.920		36.46
506	CG1			675			.903		127		.672		33.71
507	CD1	ILE		675			.464		726		.483		35.15
508	CG2	ILE					.921		461		.965		31.06
509	С			675			.979		344		.797		38.05
510	0			675			.256		562			1.00	35.21
511	N	IĻĒ	A	67 <i>6</i>		49	.724	40.	902	52	.661	1.00	37.36

Α	В	C	D	E			F	•	G .		Н		I	J	
512	CA	ILE	Α	676		48.	617		41.868	52.	857		1.00	37.0	
513	ÇВ			676			.229		41.162		874		1.00	37.	
514	CG1			676			734		40.942		432		1.00		
515	CD1	ILE	Α	676			828		39.276		877		1.00	38.5	
516	CG2	ILE	Α	676		46.	105		42.067	53.	361		1.00	39.3	
517	C	ILE	Α	676		48.	796		42,654	54,	162		1.00	35.2	26
518	, O	ILE	Ą	676		48	978		42.142	55.	242		1.00	32.2	27
519	N	ARG	Ą	677			. 683		43.918	54.	025		1.00	34.2	27
520.	CA	ARG		,		48	.910		44.789		101		1.00	36.3	19
521	CB .	ARG			 Э.		494		46.075		510		1.00	36.	
522	CG			677			. 536		47.178		599		1,00	41.	
523	CD	ARG					506		48.285		229		1.00		
524	NE			677			.825		49.350		572		1.00		
525	CZ			677	•		.795		49.516		246		1.00		
526	NH1			677					48.610		436		1.00		
527	NH2			677			.096		50.568		73.4		1.00		4.5
528	C,			677			670		45.163.		876		1.00	35.3	
529 530	O N			677		-	.723		45.624		334 161		1.00	37.! 36.!	
531	CA			678 .678			. 670 . 577		44.907 45.306		012		1.00		
532	CB			678			.636		44.533		287		1.00		
533	CG			678			644		45.003		367		1.00		
534	CD1			678			.186		44.629		808	•	1.00		
535		LEU					909		44.223		548	1.	1.00	36.	
536	C			678			.592		46.739		328		1.00		
537	0			678			505		47.253		861		1.00		
538	N			679			.585		47.452		961		1.00		
539	CA			679			.583		48.829				1.00		
540	CB	GLU	Α	679		44	.596		49.592		532	-	1.00		
541	CG	GLŲ	·A	679		45	.045		49.720	56.	088		1.00	43.	00
542	CD			679	٠.	46	.208		50.642	55.	9,68		1.00	54.	85
543	OE1			679		47	.055		50.299		162		1.00	60.	51
544		GĻU					.321		51.678		698		1.00		
545	C			679			182		48.939		817		1.00	43.	•
546	0			679			.579		49.921		483		1.00		
547	N			680			. 383		47.987		317		1.00		
548	CA			680			.778		48.130		635		1.00		
549	C			680			.428		47.436		718		1.00		
550 551	0			680			.870		46.994		730		1.00		
551 552	N			681 681			.917		47.300 46.712		921		1.00		
553	CA · CB			681	. *		.638 .739		45.712		148 095		1.00		
554		VAL							44.596		645		1.00		
555	CG2	VAL			•		.163		46.141		458		1.00		
556	C			681			.714		47.667		826		1.00		
557	0			681			.146		48.697		420		1.00		
558 558		ILE					.444		47.292		827		1.00		
559	CA			682			.419		48.006		569		1.00		
560	CB			682			.375		48.569		710		1.00		
561	CG1			682			.958		49.768		995		1.00		
562	CD1	,		682			.994		50.531		288		1.00		
563	CG2			682			.350		49.079		642		1:00		
						•									**

. A	B	C	Ď	Ę			F		G			H	. I	J	
564	C	ILE	A	682			36.7	87	46.9	83	65.	439	1.00	49.2	8
565	0	ILE	Α	682			36.0	73	46.0	91	64.	927	1.00	47.3	4 .
566	N	SER	Α	683		7.	37.1	28	47.0	28	66.	720	1.00	49.4	5
567	CA	SER	Α	683			36.6	11	46.0	43	67.	629	1.00	52.9	4
568	ĊВ	SER	Α	683		•	37.7	45	45.2	83	68.	237	1.00	52.3	7
569	OG	SER	Ą	683			38.5	01	46.1	48'	69.	035	1.00	57.1	2
570	<b>C</b> -	SER	Α	683			35.8	65 :	46.6	65	68.	798	1.00	55.6	6
571	0	SER					35.2		45.9	61	69.	632	1.00	56.4	0
572	N	LYS	Α	684			35.8		47.9			884	1.00	57.0	1.
573	CA			684			35.2	86	48.5	89	70.	046	1.00		
574	CB	LYS	A	684		٠	36.1		49.7			595	1.00	56.0	7
575	CG	LYS	Α	684			37.2	82	49.1	87	71.	564	1.00		0
576	CD			684			38.6		49.9			446		58.0	7
.577	CE			684			38.5		51.5			950		65.4	
578	NZ	LYS					39.8					881			
579	C_	LYS					33.8		48.8			727	1.00		
580	O.	LYS					32.9	-	48.7				1.00		
581	N	TYR					33.4		48.9			464	1.00		
582	CA			685			32.0		49.2			086	1.00		
583	CB	TYR					31.9		50.6		•	473			
584	CG			685		. ,	32:7		51.7			195	1.00		
585	CD1	TYŖ					32,0		53.0			444	-		
586	CE1			685			32.7					056			
587	CZ			685			34.1		53.9			401.			
588	OH-	TYR					34.9		54.8			023	1.00		
589		TYR					34.7		52.6			116	.1.00		
590		TYR			-		34.0		51.6			523		65.7	
591	Ç			685			31.4		48.3			090	1.00		
592	,	TYR					32.0		47.3	-		713	1.00		
593	N			686			30.1		48.5			649	1.00	59.9	
594	CA.			686	-		29.5		47.6			656	1.00	58.8	
595	CB .			686			28.4		46.7			024.			
596	CG			686			29.0		45.4			530	1.00		
597 598	CD : CE			686 686			29.0 30.1		46.2			040 676	1.00		
599	NZ			686		•	30.7		45.7			957	1.00		
600	C			686			29.6		47.8			242	1.00		
601	O			686			29.4		48.9			673	1.00		
602	N			687			29.4		46.7			735		56.9	
603	ÇA			687			30.1		45.6			006	1.00		
604	CB			687			29.8		46.0			546	1.00		
605	CG			687			28.7		47.0				1.00	56.9	
606	CD			687			28.5		47.5			796		57.1	
607	- C			687			31.5		45.8			404		50.9	
608	, o			687	٠.		32.1		46.9			374		49.5	
609	N			688			32.1		44.7			861	1.00	48.5	
610	CA			688			33.6		44.7			904	1.00	45.5	
611	CB			688			34.0		43.6			784		44.2	
612	CG			688			33.3		43.8			128	1.00	46.1	
613				688			34.1		42.7			123	1.00	50.4	
614	CE	MET		688			32.9		42.3			460	1.00	55.7	
615	C			688			34.0			76,		442	1.00	45.6	
		- :												- *	

Express Mailing No. EV327523004US Docket No. SYR-EPHA2-5001-C1 Sheet 15 of 90

A	В	С	D	E			:	F	G		H	I	J
616	0	MET	Ά	.688		•	33	.364	43,928	3	61.647	1.00	43.85
617	N٠			689				. 223	45.158		62.136		44.48
618	CA			689				. 872	45.203		60.853		41.56
619	СВ	MET						. 682	46.594		60.344		40.68
620	CG			689		• •		.291	46.942		60.319		
621	SD	MET						.939	48.310		59.192		42.01
622	CE .	MET							49.294		60.146		
623	C ·	-		689				.362	44.919		60.908		41.69
624	0			689				.977			61.897		39.55
	N			690				.940			59.830	**	40.03
626	CA			690				.410	44.15		59.726		38.46
627	ĊВ			690				.650	42.71		59.574		38.25
628	CG1	-		690				.323			60.848		33.60
629	CD1			690					40.492		60.720		36.97
630	CG2	ILE						.038	42.46		59.271		40.53
631	C			690				644	44.92		58.495		38.31
632	.0			690				.862			57.519	-	38.24
633	N			691				.509			58.568		39.22
634	CA			691				.764	46.894		57.444		36.53
635	СВ			691	:		••	.907	48.31		57.943		37.55
636	CG1			691				.876	48.734	4	59.047	1.00	39:31
637	CD1			691	•			.393	48.990		58.541		32.39
638		ILE						.907	49.25		56.831		37.29
639	C			691				.158	46.590		56.770		38.01
640	0			691				.218	46,620		57.463		38.01
641	N			692				.182			55.445		37.20
642				692				.445	46.080		54.734		36.47
643	CB			692				.566	-44.593		54.387		35.20
644	OG1			692				.564	44.283		53.451		35.83
645	CG2	THR						.156	43.824		55.543		30.57
	C			692				.683	46.86		53.537		36.06
647	0			692				.841	47.599		53.075		37.50
648	N			693				.893	46.762		53.018		36.84
649	CA			693				.200	47.583		51.862		34.75
650	CB			693				.688	47.41		51.456		34.83
651	CG			693				.212	45.989		51.487		37.28
652	CD			693				.611	45.888		50.934		40.39
653	OE1	GLU	Α	693				.308	44.958		51.275	1.00	
654	OE2	GLU	Α	693			49	.039	46.75	4	50.177	1.00	38.27
655	C .	GLU	Α	693		-	44	.262	47.082	2	50.823		35.09
656	0	GLU	Α	693			43	.970	45.920	С	50.773	1.00	36.98
657	N	TYR	Α	694			43	.698	47.978	8 -	50.038	1.00	36.62
658	CA	TYR	Α	694			42	.849	47.622	2	48.960	1.00	37.31
659	CB -	TYR	Α	694			42	.179	48.88	7 .	48.452	1.00	37.54
660	CG	ŢYR	A	694			41	.184	48.41		47.412	1.00	42.14
661	CD1	TYR.	Α	694			41	.184	48.943	3	46.116	1.00	43.68
662	CE1	TYR	Α	694			40	.308	48.45	₿	45.146	1.00	43.19
663	CZ	TYR	Α	694				.456	47.37		45.442		43.99
664	ОН	TYR	Ą	694			38	543	46.88		44.453		50.45
665	CE2	TYR	Α	694				.497			46,700		45.46
666		TYR						.400			47.673		
667	C	TYR	Ą	694			43	.600	46.89	<u></u>	47.705	1.00	37.33

Α	В	Ç Î	D	Ę		F	G	Н.	Ĭ	J
	٠									٠.
668	0	TYR	Α	694		44.550	47.410	47236	1.00	36.42
669	N	MET	A	695		43.211	45.693	47.297	1.00	36.44
670	ÇA .	MET	Α	695		43.873	45.008	46.147	1.00	38.70
671	CB	MET	Α	695		44.266	43.583	46.553	1.00	36.76
672	CG	MET	A	695		45.185	43.564	47.793	1.00	36.63
,673	SD	MET	Α	695		46.870	44.267	47.620	1.00	38.01
674	СĘ	MET	Α	695		47.436	42.869	46.677	1.00	33.07
675	. C	MET	· A	695	•	42.889	44.957	44.909	1.00	40.11
676	Ŏ.	MET	Α	695		42.039	44.111	44.843	1.00	42.18
677	N	GLU	Α	696	4	43.005	45.883	43.975	1,00	40.26
678	ÇA	GLU	Ą	696	. *	42.088	46.032	42.896	1.00	41.93
679	CB	GLU	Α	696		42.712	46.973	41.893	1.00	43.18
680.	CG	GLU	Α	696		42.480	48.440	42.115	1.00	48.76
681	CD	GLU	Α	696		41.565	48.937	40.999	1.00	58.48
682	OE1	GLU	Α	696	•	40.566	48.194	40.663	1.00	63.90
683	OE2	GLU	A	696	٠.	41.916	50.017	40.443	1.00	62.65
684	C	GLU	A	696		41.889	44.764	42.103	1.00	41.93
685	Q.	GĻΨ	À	696		40.789	44.446	41.706	1.00	44.34
686	N	ASN	Α	697		42.922	43.979	41.880	1.00	39.85
687	CA	ASN	A	697		42.618	42.947	40.921	1.00	38.87
688	CB.	ASN	Α	697		43.808	42.705	39.966	1.00	38.40
689	CG	ASN	Α	697		43.812	43.672	38.784	1.00	40.20
690	OD1	ASN	Α	697		44.849	44.178	38.347	1.00	44.17
691	ND2	ASN	Α	697		42.558	43.959	38.269	1.00	45.86
692	<b>C</b> , .	ASN	Α	697		42.157	41.756	41.647		37.90
693	0 .	ASN	Α	697		41.992	40.689	41,026		39.69
694	N			698		42.062	•	42.992		33.49
695	CA-	GLY	Α	698		41.403	40.701			
696	C			698		42.204	39.491	43.680	1.00	
697	0	GLY	Α	698		43.383	39.592	43.682	1.00	29.55
698	Ν.	ALA	Α	699		41.559	38.342	43,701	1.00	29.72
699	CA	ALA	Ą	699		42.186	37,154	43.998	1.00	29.38
700	CB	ALA	Α	699		41.204	36.198	44.395	1.00	26.29
701	C.	ALA	A	699		42.995	36.675	42.794	1.00	33.59
702	0 '	ALA	Α	699		42.596	36.859	41.676	1.00	31.03
703	N	LEU	Α	700		44.050	35.887	43.011	1.00	34.21
704	CA	LEU	Α	700		44.921	35.788	41.802	1.00	34 <sup>-</sup> .10
705	CB	LEU	A	700		46.407	35.560	42.179	1.00	32.00
706	CG	LEU	Α	700		47.319	34.761	41.280	1.00	31.11
707	CD1	LEU	Α	700		47.764	35.687	40.259	1:00	28.00
708	CD2	LEU	Α	700		48.550	34.238	42.076	1.00	28.60
70.9	C	LEU	Α	700		44.409	34.800	40.866	1.00	33.32
710	0	LEU	Α	700		44.504	35.041	39.691	1.00	33.33
711	N	ASP	Α	701	, .	43.814	33.697	41.348	1.00	34.11
712	CA	ASP	Α	701		43,402	32.617	40.406	1.00	35.12
713	CB	ASP				42.894	31.383	41.064	1.00	33.80
714	CG			701			31.594	41.891	1.00	34.53
715	OD1	ASP	Α	701	( )	41.531	32.676	42.421		30.09
716		ASP			٠	40.923	30.670	42.118		37.42
717	Ç			701		42.326	33.068	39.463		36.51
	. 0	ASP	A	701		42.123	32.568			
719	N	LYS	A	702		41.562	34.003	39.970	1:00	37.59
						•				

A. A.	В	C	D	<b>E</b>				F .		G		Н.		I.	Ţ	J	
. 720	CA	LYS	Α	702			40	.659	34	.530		39.118	1	00	36.	. 66	
721	CB	LYS		702			39	.348	34	.752		39.976	. 1	.,00	39.	. 28	
722	CG			702		-	38	.479		.942		39.600	٠ 1	.00	40.	.13	
723	ÇD	LYS		702				.311		.218		40.641			56.		
724	CE	LYS						.951		.757		40.026		- 00			
725	NZ	LYS						.195		.733		39.227		.00			
726	C			702				.878		.646		38.132		L,00			
727	0	LYS		702				.206		.681		37.082		.00			
728	N	PHE		703				.549		.665		38,605		.00			
729	CA	•		703				.200		.643		37.765		.00			
730	CB	PHE		703				.332		.312		38,567		.00			
731	. CG	PHE	A	703				.012		.505		37.876		.00			
732 733	CD1 CE1	PHE PHE		7.03				.177		.498		37.330		00			
734	CZ			703 703				.732 .135		.626° .763		36.757 36.641		L.00			
735	CE2		A	703				.994		.790		30.041 $37.203$		00			
736	CD2		A	703	. •			.473				37.203 37.808		.00			
737	C		A	703				.876		.911		36.599		L.00:			٠.
738	.0		A	703				.629		.269		35.553		1.00			
739	N	LEU		704				.688				36.842		.00			
740	CA	LEU		704	7			.382		.252		35.803		1.00			
741	CB	LEU		704	1			.213		.181		36.373		1.00			•
742	ÇĢ	LEU		704	•			.458		.749		37.087		1.00			
743	CD1	ĻĘU	Α	704				.352		.579		37.374		.00	37.		. '
744	CD2	LEU	·A	704	i		47	.195	36	.016		36.306	1	L.00	37		
745	С	ΓĒŪ	Α	704			43	.422	34	.649		34.912	. 1	L.00	36.	. 85	
746	0	LEU	Ą	704				.715	34	.499	٠	33.721		L.00			
	N			705				236		.267		35.435		r'00.			- :
748	CA	ARG						.330		. 575.		34.495		L.00			*.3
749	CB			705	٠.			.284		.784		35.157		L.00			
75.0	CG			705	·			854		.540		35.460		L.00			
751	CD			705				.889		. 555		35.686		1.00			
752 - 753	NE			705			-	.223		.917		36.889		L.00	40.		
754	CZ	ARG	-	705				.621		.530		38.094		L.00	48.		
755	NH1 NH2	ARG		705 705				.912 .700		.778		39.157 38.239		L.00 L.00			
756	C	ARG		705				.673		.528		33.555			38.		
757	0			705	- 7			.320		.170		32.473		1.00	40.		
758	N			706				.500		.728		34.028		1.00			
759	CA			706				.969		.744		33.282		1.00			
760	ÇВ			706				.517		.804		34.231		L.00			
761				706				.247		. 363		34.881		1.00			
762	CD	GLU	A	706				.786		.278		36.015		L.00			
763	0E1	GLU	Α	.706			36	.711		. 952		36.578		1.00			
764	OE2			706			38	.517		. 275		36.357	1	1.00	64	. 44	
765	C			706				.921		.385		32.278					
766	0			706				.495		.051		31.411		L.00			
767	N			707				.197		.278		32.465		.00			
768	CA			707				.145		.027		31.602		L.00			
769	CB			707	•			.085		. 856		32.502		1.00			
770	CG			707				.436		.070		33.159		L.00			
771	ÇD	ΉÃΩ	A	707			42	. 537	40	.850		32.178	. ]	L.00	41.	. 00	

Α	В	, C	D	E			F			G	·	Н	ı.	J.	
772	CE	LYS	Α	707			41.8	28	42.	152	32.	801	1.00	43.9	91
773	NZ	LYS		707			42.4		43.			199	1.00		
774	C '			707	4		43.9		36.			907	1.00	34.8	
775	0	LYS	Α	707	. •		45.1	40	37.		30.	851			
776	, N	ASP	Α.	708			43.3	10	35.	854	30.	599	1.00		
777	CA	ASP	A	708			43.9	61	34.	687	30.	142	1.00		
778	СВ	ASP	Ą	708	5		42.9	37	33.	630.	29.	906	1.00	35.	74
779	. ÇG	ASP	Ά	708		-	43.5	49	32.	340	29,	318	1.00	37.9	91
780	OD1	ASP	À	.708	•		44.7	13	32.	065	29.	373	1.00	46.6	56
781	OD2	ASP					42.9	40	31.	505	28.	741	1.00	51.3	37
782	Ç	ASP		708			44.8	23	34.	932	28.	843	1.00		
783	Ο.	ASP		708			44.3	32	35.	563	<b>27.</b>	880	1.00	33.0	3
784	N			709			46.0		34.	438		842	1.00	32.1	14
785	CA	GLY					46.9		34.			796	1.00		
786	, C	GLY		709			47.3		36.			734	1.00	33.5	
7,87	0	GLY	-				48.0					849	1.00	32.4	
788	N	GLU		710		. !	47.0		37.			715	1.00		
789	CA	GLU				•	47.3		38.			521	1.00	35.0	•
790	CB	, GĻU			•		46.1		39			823	1.00	34.	
791	CG	GLU					44.8		39.			228	1.00	33.4	
792		GLU				. •	43.8		40.			521	1.00	41.(	
793	OE1	GLU			3		44.1		41.			693	1.00		
794	OE2	GLU		710			42.7		39.				1.00	38.	
795	Ċ	GLU		710			48.6		39.			221.		36.6	
796.	.0	GLU					48.8		40.			192	1.00		
797	N			711			49.4		38.			832	1.00		
798 799	CA CB			711 711			50.5		38.			525	1.00		
800		PHE					49.3		38.				1.00		
801	CG CD1	PHE				٠	48.3		39.2 38.			812 509	1.00 $1.00$	38.6	
802	CE1			711		•	47.3			316.		196	1.00		
803	CZ			711			47.3		40.			129	1.00		
804	CE2			711			48.3		41.			378	1.00		
805	CD2	PHE				¥	49.3		40.			722	1.00	36.3	
806	C	PHE					51.7		38.			795		38.3	
807	0 -		A	711	•		51.6		37.			189	1.00		
808	N			712	٠.		52.8		38.			832	1.00		
809	CA	SER					54.0		38.			318	1.00		
810	CB			712			55.0		39.			207.	1.00		
811	OG			712	•		55.4		39.			488	1.00		
812	C			712			54.5		37.			343	1.00		
813	0			712			54.1		37.			560	1.00		
814	N	VAL					55.3		36.			853	1.00		
815	CA	. VAL	·A	713			55.9		35.4			743	1.00		
816	CB	VAL			•		56.8		34.			902	1.00		
817	CG1	VAL	Α	71,3			57.8	80	33.		30.	73 <b>4</b>	1.00		
818	CG2	VAL			-		55.9	73	33.	661		047	1.00		
819	С	VAL					56.8	20	36.	172	31.	891	1.00		
820	Ò	VAL	Α	71:3	•		57.0	34	35.	653	33.	003	1.00	38.8	30.
821	N	ĻEU					57.2		37.	3,66	31	621	1.00		
822	CA			714			58.0		38.	031		613	1.00	40.3	96
823	. CB	LĘU	A	714			58.9	51	39.	068	31.	898	1,00	40.3	30
	,														

A	В	С	D	E			*	F	G		Н	I	J.
824	CĢ	LEU	Α	714			60.	120	39 781		32.561	1.00	45 88
825	CD1	LEU						094	38.833		33.052		
826	CD2	LEU						780	41.002		31.669		38.74
827	C			714				168	38.638		33.698		40.29
828	0			714				505	38.570		34.844		44.01
829	N	GLN			٠			998	39.165		33.341	1 00	39.22
830	CA	GLN						001	39.613	٠.	34.321	1:00	36.85
831	CB			715				868	40.332		33.636		38.50
832		GLN						218	41.672		33.012		29.96
833	CD			715				075	42.067		32.167		28.87
834		GLN						617	41.293		31.387		32.88
835		GLN					-	490	43.193		32,455		33.61
836	C	GLN						509	38.407		35.125		36.09
837	0			715		•		324	38.479		36.350		38.22
838		LEU			. ,			447	37.245		34.514		34.64
839	CA		•	716				000	36.106		35.305		34.14
840	CB			716				658	34.883		34.441		33.25
841	СG			716		•		373	35.072				34.69
842		LEU.						021	33.922		33.597 32.684		40.42
843		LEU						151	35.322		34.465		35.13
844	CDZ			716			51.	008.	35.742				36.34
845	0			716				687	35.742		36.325	-	38.96
846	N ·								35.520		37.487		35.71
				717				247			35.901		
847 848	CA CB			717	r			282	35.173		36.716		33.91
849		VAL		717				571	35.031		35.931		35.17 29.77
850		VAL						367	34.711 33.983		36.866 34.852		
	CGZ			717				580	36.125				
852	0			717				. 880	35.699		37.850 38.947		33.83 31.28
853	'n			718	•			534	37.416		37.555		31.26
85 <b>4</b>	CA			718				503	38.426		38.592		35.27
·855	C			718				.292	38.282		39.565		36.66
856	0			718				491	38.537		40.791		39.82
857	N			719		•		.089	37.891		39.114		35.07
858	CA			719				.036			40.103		34.57
859	CB			719				605	37.454		39.502		34.98
860	CG			719				011	38.624		38.740		38.87
861		MET						791	38.025		37.564		43.45
862	CE	MET						.085	39.579		36.958		37.28
863	C			719				549	36.568		40.960		34.85
864	0.,	MET		719				303	36.521		42.201		34.62
865	N			720				287	35.643		40.362		33.93
866.	CA			720				655	34.523		41.175		35.01
867	CB	·LEU						0.42	33.265		40.370		34.91
868	CĢ			720		٠.		807	32.554		39.778		41.19
869		LEU						348	31.681		38.652		33.86
870		LEU						.125	31.703		40.866		35.22
87 <b>1</b>	C	LEU		720				796	34.940		42.127		34.33
872	0			720				915	34.341		43.175		33.94
873	N			721				633	35.906		41.741		35.51
874	CA			721				698	36.200		42.637		37.80
875	CB.	-		721					36.862		42.044		38.19
	**						·		, J . J J Z			+.44	J

A	В	C	D	E				F		Ģ	,	Н		I	Ċ	J
876	ÇĠ	ARG	Α.	721 1			60.	.314	38.	329	42	2.432		1.00	43.	. 45
877	ÇD -	ARG		•				699		652		3.075		1.00		
878	NE	ARG	Α	721			61.	.671 <sup>:</sup>		968		3.738		1.00		
879	ÇZ	ARG	.Ą	721			62.	. 115		223		5.005		1.00		
880	NH1	ARG	A	721		٠.	62	. 690	39.	297		5.760		1.00	42.	62
881	NH2	ARG	Α	721	•		62.	011	41.	426	45	5.507	•	1.00	42.	.77
882	C	ARG	A	721			58.	.073	36.	904	4	3.840		1.00	35.	.74
883	0	ARG	Α	721			58	397	36.	583	. 44	1.921		1.00	36.	. 27
884	N	GLY	Α	722				.028	37.	678	43	3.635		1.00	36.	. 52
885	CA	ĢĻY						.397		422		1.757			33.	
886	С			722				.861		381		5.691			32	
887	Ö	GLY						.178		333		5.854	٠	1.00		
888	N			723,				.965·		546		5.211		1.00		
889	CA			723				543		518		5.137		1.00		
890	CB	ILE			•			.772		400		5.387		1.00		
891	CG1	ILE						614		088		1.763		1.00		
892		ILE						890		311		3.667		1.00		
893	CG2	ILE						. 270		347		5.367		1.00		
894	C	ΙĻΕ						. 682		939		875		1.00		
895	0 -	ILE						. 643		733		3.086		1.00		
896	N	ALA						. 673		526		5.105		1.00	30.	
897	CA	ALA						.762		758		5.736		1.00	30.	
898	CB	ALA						.778		564		5.694		1.00		
899	С	ALA						.469		553		7.912		1.00		
900	O .	ALA						762		063		0.021		1.00		
901	N	ALA						.746		770		7.606		1.00		
902	CA	ALA				:		.310		650		3.550		1.00		
903 904	CB C	ALA		725			•	.330		044		7.843		1.00		
905	0	ALA						.500 .049		648		9.943 L.069		1.00	32.	
906	N	GLY						.186		806		9.778		1.00		
	CA	GLY						. 280		858		0.888			32.	
908	C	GLY						. 416		599		L.565		1.00	34.	
909	Ô	GLY				1		.515		595	•	2.766		1.00	37	
910	N	MET		727				.508		533		0.825		1.00	33	
911	CA	MET						.597		296		L.482		1.00	36	
912	CB	MET		727		. :		397		063		0.534		1.00	38.	
913	CG			727				.028		722		0.128		1.00	35.	
914	SD	MET						.739		892		L.569		1.00		
915	CE	-		727.				.924		327		2.256		1.00		
916	C	MET						.004		177		2.095		1.00		
917	0.	MET						.132		402		2.994		1.00		
918	N	LYS						049		876		1.607		1.00		
919	CA	ĻYS						.369		753		2.222		1.00		
920	CB	LYS						.552		367		L.426		1.00		
		·LYS						.851		461		2.374		1.00		
922	CD	LYS					64	.269	34.	813		L.788		1.00		
923	CE	LYS	A	728			65.	.367	34.	940	52	2.974		1.00	60.	.10
924	NZ	ĻYS						.965	33.	.76Ś	50	3.965		1.00	59.	.07
925	Ç ·	LYS	À.	728	٠.		60	.220	34.	506	5.	3.629		1.00		
926	0 .	LYS					60	.732				1,703		1.00		
927	Ň	ŢŸR	A	729			59	.566	35.	633	53	588		1,00	41.	.05
		0.0														

. A	В	C	D,	E		F	Ģ	Н	I	J
928	CĄ	TYR	Α	729		59.283	36.265	54.861	1,00	40.26
929	ÇB ·	TYR	Α	729		58.511	37.417	54.525	1.00	36.34
930	CG	TYR	Α	729		58.276	38.219	55.647	1.00	43.34
931	CD1	TYR	A	729		59.290	39.022	56.234	1.00	41.12
932	CE1			729		58.907	39.900	57.404	1.00	41.14
933	ÇZ			729		57.600	39.837	57.863	1.00	41.39
934	OH	TYR	Α	729		56.977	40.579	58.883	1.00	40.30
935	CE2	TYR	A	729	•	56.672	38.976	57.197	1.00	40.74
936	CD2	TYR	Α	729		56.985	38.255	56.187	1.00	36.09
937	Ç :	TYR	Α	729		58.534	35.355	55.862	1.00	42.10
938	. 0	TYR	Α	729		58.996	35.098	57.035	1.00	41.89
939	N	LEU	A	730		57.379	34.814	55.422	1.00	42.02
940	CA	LEU	Ą	730		56.704	33.992	56.335	1.00	39.74
941	CB	LEU	A	730		55.411	33.422	55.779	1.00	38.11
942	CG	LEU	A	730		54.356	34.521	55,426	1.00	39.93
943	CD1	ĿĔŲ	A	730		5,3.208	33.851	54.731		30.48
944	CD2	ĻEU	Α	730,		53.843	35.522	56.628	1.00	36.84
945	$C \cdot \cdot$	LEU	A	730		57.615	32.961	56.868	1.00	40.93
946.	0 ,	LEU	A	730		57.590	32.614	58,097	1.00	44.06
947	N	ALA	Α	731		58.379	32.366	56.000	1,00	41.66
948	ÇA			731		59.128	31.219	56.482		43.27
949	CB			731		59.665	30.304	55.365	1.00	42.98
950	C	ĄLĄ	Α	731		60.252	31.695	57.426	1.00	43.66
951	0	ALA	A	731		60,645	31.018	58.306	1.00	44.04
952	N	. ASN	A	732		60.709	32.885	57.279	1.00	44.35
953	CA			732		61.713	33.276	58.220		46.81
954	CB ·			732		62.560	34.350	57.600		43.35
955	CG			732		63.616	33.729	56.588		48.96
956	,	ASN				63.954	32.507	56.609		49.17
957	ND2			732		64.077	34.565	55.670	1.00	
958	· Ç			732		61.050	33.532	59.645		47.03
959	0 -			732		61.593	33.105	60.645		47.94
960	N ·	MET		733	**	59.861		59.686		47.68
961	CA			733		59.083		60.880		45.27
962	CB-	MET		733		57.872			•	43.96
963	CG	MET		733	٠	58.018	36.674	60.281	1.00	
964	SD	MET		733		59.136	37.666	61.268	1.00	
965	CE	MET	A		•	58.421	37.372	62.740		52.36
966	C.			733		58.590	33.013	61.346		45,93
967 - 968		ASN		733		57.762	32.977 31.890	62.179		46.67
					•	59.121		60.885		46.78
969 970	CA CB			734 734		58.546 58.754	30.632 30.384	61.341 $62.828$		47.20 50.07
971	CG			734		60.243		63.145		56.81
972		ASN				60.886	30.656	64.048		57.16
973 .	ND2			734		60.803	29.077	62.372		59.81
974 974	C MD5			734		57.069	30.458	61.090		45.73
975	0			734		56.373	29.743	61.797		43.13
976	N -			735		56.542	31.043	60.042		44.71
977	CA			735	1.	55,107	30.822	60.011		43.29
978	CB			735		54.443	32.126	59.921		42.22
979	CG			735		53.029	32.009	59.724		41.13
		- 117	7.7						· · · ·	

	A	В	C	D	E ·			F	Ģ	H	Ĭ.	J
9	80	CD1	TYR	A	735	·		52.152	32.131	60.814	1.00	40.42
9	81 .	CE1	TYR	Α	735			50.811	32.085	60.664	1.00	47.06
9	82.	CZ	TYR	Α	735			50.271	31.907	59.374		47.34
9	83	ОН	TYR		735			48.915	31.764	59.227		46.64
	84 .		TYR					51.155	31.732			47.89
	85 -	CD2	TYR					52.528	31.829	58.447		42.90
	86	C			73.5			54.792	29.913	58.861		41.63
	87	0	TYR			ĺ		55.164	30.186	57.742		42.29
	88	N	VAL					54.158		59.140		38.41
	89		VAL.							58.084		39.18
	90		VAL					53.963	26.643	58.559		38.60
	91		VAL		736			53.334		57.440		44.99
	92		VAL					55 465	26.273	59.020		41.99
	93	C	VAL			: ,		52.508	28.121	57.602	1.00	
	94	0	VAL					51.554	27.827	58.342		
	95		HIS					52.358	28.570	56.348		37.18
	96		HIS					51.076		55.969		38.45 38.83
	97: <sup>1</sup>	_							29.014 29.539			
		CB	HIS					51.218		54.599		40.55
	98.	CG	HIS			*		50.007	30.193	54.135	1.00	
	99		HIS			-		48.855		53.856	1.00	35.99
	00		HIS					47.910	30.315	53.492		39.74
10			HIS						31.563		1.00	
10			HIS		737				31.497	54.039		31.88
10		С	HIS		737	·	•		28.008	55.933		41.07
10		0	HIS					48.797	28.237	56.357		44.04
10		N	ARG			`		50.376	26.934	55.306		
10		CA	ARG			٠.		49.618	25.687	55.197	1.00	
	07	CB	ARG					48.940		56.513	1.00	
10		CG.	ARG			,	×	49.697		57.725	1.00	
1,0		CD	ARG			•		48.687			1.00	
10		NE	ARG					49.009	23.892	59.954		67.74
10			ARG	A	738			48.085	23.420	60.827	1.00	72.67
10		NH1					•	46.820	23.728	60.649	1.00	73.68
10		NH2	ARG					48.410	22.631	61,865	1.00	
10		C .	ARG		738			48.515	25.670	54.118	1.00	38.77
10	15	0	ARG					47.921	24.641	53.870	1.00	38.45
10		N	ASP					48.177	26.788	53.516		36.53
10		CA	ASP		739			47.072	26.753	52.631	1.00	36.55
10	18	CB	ASP					45.883	27.404	53.377	1.00	39.05
	19	CG	ASP					44.538	27.308	52.614		42.96
		OD1	ASP	Α	739			43.754	28.312	52.665	1.00	43.61
10	21	OD2	ASP	Ά	739			44.148	26.255	52.038	1.00	39.35
10	22	С	ASP	Α	739			47.535	27.617	51.504	1.00	36.75
10	23	0	ASP	A,	739			46.777	28.532	50.983	1.00	39.35 36.75 36.19
10	24	N	ĻĘU	Ą	740			48.780	27.439	51.069	1.00	33.43
	25	CA	LEU					49.061	28.504	50.134		33.57
	26	СB	LEU					50.481	28.864	50.075		33.24
10		CG	LEU					50.940		48.750		31.68
	28		LEU				,			48.641		25.60
10			LEU				٠			48.706		23.37
10		C	LEU							48.796		33.56
	31	0	LEU						26.963			
0		-									<b></b> 00	

Α	В	C :	D	E		F	G	Н	Ĭ	Ĵ
1032	N.	ALA	Α	741		47.907	29.154	48.172	1.00	32.21
1033	CA			741		47.206	28.832	46.941		31.18
1034	CB			741		45.926	27.914	47.257		29.26
1035		ALA				46.846		46.143		29.34
1036	.0 -			741		46.668	31.011	46.680		33.20
1037	N			742	-	46.670	29.881	44.843		30.74
1038	CA			742			31.125	44.116		30.53
1039	CB.	•		742		46.415	30.932	42.505		29.25
	· C			742	***		31.834	44.608		29.77
1041				742		45.243	33.003	44.528		31.53
1042	N ·			743	. * .	44.245	31.119	44.944	1.00	30.98
1043	CA			743		43.077	31.884			34.86
1044	CB			743	. :	41.863	30.923	45.700	1.00	
1045	CG .			743		42.121		46.920	1.00	34.44
1046	CD			743		41.108	28.958	47.187		39.03
1047	ΝĒ			743		41.222	28.546	48.614	1.00	
1048	CZ			7.43		41.915	27.457	49.044		48.15
1049				743		42.514	26.617	48.179	1.00	45.40
1050	NH2			.743	· ·	42.006	27.199	50.343	1.00	47.01
1051	C			743		43.400	32.651	46.746	1.00	35.27
1052	0			743		42.567	33.390	47.192	1.00	35.06
1053	N			744		44,557	32.422	47.395	1.00	34.09
1054	CA			744		44.801	33.215	48.540		
1055	CB			744	• 0	45.131	32.369	49.740		37.53
1056	CG			744	٠	43.885	31.484	50.204		39.21
1057	OD1			744			. 31.939	50.226	1.00	42.62
1058	ND2	ASN				44.146	30.287	50.555		40.51
1059	C	ASN	Α	744		45.837		48.356	1.00	33.36
1060	0			744		46.457	34.589	49.341	1.00	35.07
1061	N	ILE	Α	745	•	46.006	34.705	47.117	1.00	30.57
1062	CÀ	ILE	Α	745		46.897	35.733	46.854	1.00	28.67
1063	ÇВ	ILE	Α	745		47.832	35.223	45.714	1.00	30.71
1064	CG1	ILE	Α	745		48.559	33.935	46.089	1,00	35.04
1065	CD1	ILE	·A	745	• .	49.267	33.990	47.383	1.00	35.54
1066	CG2	ILE	Α	745		48.729	36.302	45.150	1.00	24.18
1067	C	ILE	Α	745		46.035	36.788	46.288	1.00	29.43
1068	0	ILE	Α	745		45.130	36.504	45.501	1.00	31.60
1069	N	LEU	Α	746		46.311	38.021	46.582	1.00	27.98
1070	CA	LEU				45.533	39.043	46.041		30.08
1071	СB			746		45.083	39.943	47.195		33.28
1072	ÇG	ĻEU	A	746		43.629	39.785	47.648	1.00	33.99
1073		LEU				43.198	38,419			41.53
1074		LEU					39.973	49.163		,
1075	C ·			746		46.416	39.870	45.214		31.34
1076	O·			746	• .	47.672	39.863			33.08
1077	N			747		45.863	40.732	44.393		32.95
1078	CA			747	•	46.775	41.316	43,368		33.35
1079	CB			747	-	46.535	40.592	41.936		34.25
1080		VAL				47.470		40.731		32.32
1081		VAL				46.731	39.130	42.052		28.68
1082	C			747		46.354				35.15
1083	. O	۷AĻ	A	/4/		45.192	43.035	43.182	i.00	36.61

Α.	В	·C	Ď	E		F	G	. H	I	J
1084	N	ASN	Ą	748		47.265	43.612	43.005	1,00	38.24
1085	ÇA	ASN	Α	748		46.877	45.028	42.924	1.00	38.34
1086	CB	ASN	Ą	748		47.567	45.802	44.082		36.64
1087	ÇG	ASN		748		49.029	46.025	43.866		41.61
1088		ASN	-		1	49.862	46.322	44.892		43.62
1089	ND2	ASN		748	1 1	49.440	45.937	42.561		30.49
1090	C	ASN				47.108		41.577		39.45
1091	0 1	ASN		748		47.639	44.987	40.711		40.04
1092	N			749		46.695	46.895	41.373		42.73
1093	ÇA			749		46.786	47.496	40.099		46.89
1094	ĊВ			749		46.385	48.978	40.082		48.87
1095	OG	SER		749	4.	45.668	49.315	41.225		54.36
1096	Ç			749		48.144	47.270	39.473		47.52
1097	Ō	SER		749	1.	48.120	47.006	38.275		50.51
1098	N ·			750		49.269		40.208		45.78
1099	CA			750		50.564	47.075	39.586		45.35
1100	CB	ASN				51.653	47.880			46,42
1101	CG -			750		51.353		40.146		52.77
1102	OD1	-		.750	•	50.799	49.871			54.71
1103		ASN				51.556	50.090	41.283	1.00	
1104	C.			750		50.867	45.596	39.508		45.29
1105	0			750		51.983	45.229	39.197		47.66
1106	N			751		49.900	44.715			43.51
1107	CA			751		50.329	43.316	39.610		41.03
1108	СВ			751		50.906	43.089	38.217		38.31
1109	CG			751		50.061	43.748	37.120		41.64
1110		LEU				50.758	•	35.751		38.27
1111	CD2			751	- 100	48.627	43.252			28.14
1112	Ç			751		51.261		40.682		38.95
1113		LEU			. •	51.616	41.503	40.614		39.08
1114	N			752		51.532		41.722	1.00	
1115	CA			752		52.201	42.927	42.911		37.62
1116	CB			752	·	52.407	44.027	43.985		41.07
1117	CG1	VAL				52.935	43.433	45.248		31.93
1118	CG2	VAL			1	53.374		43.434	1.00	•
1119	C			<b>752</b>		51.212		43.535		36.23
1120	0			752		50.109		43.656		37.11
1121	N			753		51.624	40.762	43.833	1.00	
1122	CA			753		50.883	39.701	44.373		
1123	CB			753			38.393	43.688		27.84
1124	SG			753			38.335	42.039,		
1125	С			753		51.225	39.605	45.855		32.33
1126	Ö .			753		52.398	39.547	46.172		
1127	N			754		50.219	39.528	46.741		32.94
1128	CA			754		50.507	39.386			
1129				754		50.162	40.696	48.875		33.13
1130	CG			754		50.605	41.963	48.135		29.06
1131	CD			754		50.285	43.144	49.026		35.71
1132	CE	LYS				50.643	44.415	48.261		35.80
1133	NZ			754		51.568	45.193	49.061		43.38
	C.			754		49.841	38.219			32,31
1135	0			754		40 600	37.924	48.506		34.15
					•	*		-		

Ą	В.	. C	D	E			F	G	;	H	I	J
1136	N	VAL	Ä	755	1.		50.51	37.57	5 49	.758 <sub>.</sub>	1.00	31.55
		VAL					49.97		8 50			33.31
1138		VAL					51.02			.198		30.88
1139		VAL					50.35			.795:		32.21
		VAL					52.08			.251		34.24
	.C	VĄL					48.92		2 . 51			35.40
1142	0	VAL					49.16		6 . 52			32.54
1143				756			47.77			.457		38.43
1144	CA			756		1	46.64		2 52			43.72
1145	CB			756				4 37.43		.159		44.86
1146				756			44.64			.000		54.93
1147	C			756			46.07		1 50	.814		43.72
1148	0			756			46.71			.765		43.99
1149		ASP					44.91			.430		43.35
1150	CA	ASP					44.41		2 54			45.65
1151	СВ	ASP					44.27			.015		46.32
1152	CG			757			43.72			.635		52.75
1153		ASP					44.12			.230		.56.00
1154		ASP						7 32.27				43.97
1155	C .			757			45.19			.204		46.33
1156	0			757			45.64			.11,9		45.10
1157	N			758			45.27			.314		47.63
1158	CA			758			46.03			.464		49.68
1159	CB.			758			46.84			.006		44.29
1160	CG			758			47.81		1 57			42.30
1161		PHE					47.59			.368		42.22
1162		PHE					48.59			.442		39.71
1163	CZ			758			49.74			. 255		36.81
1164		PHE					49.87			.943		34.18
1165 `	CD2			758			48.97			.849		40.00
1166	C			758			44.97			.453		52.68
1167	0			758			44.20			.838		57.15
1168	N			759			44.86			.977		55.94
1169	CA			759			43.68		2 . 59			61.61
1170	C		-	759				7 31.29			1.00	
1171	0	GLY	A	759			42.69	4 30.46	6 59	.606	1.00	67.00
1172	N	ALA	À	760			43.66		2 61	.603	1.00	68.87
1173	CA	AĻA	Α	760			43.34		1 62	.553		70.34
1174	CB	ALA	Α	760			42.22	1 30.59	2 63	.474	1.00	72.37
1175	C	ALA	Α	760	-		43.00	1 28.69	1 62	.018	1.00	70.84
1176	0	ALA	Α	760			43.73	4 27.74	1 62	.273	1.00	72.10
1177	N	ĻYS	A	778			38.91	2 22.10	9 55	.182	1.00	61.96
1178	CA	LYS	Α	778			39.12	3 23.43	4 54	.474	1.00	6202
1179	CB ·	LYS	Α	778		. '	.39.10	9 24.63	1 55	.464	1.00	61.52
1180	CĢ	LYS	Α	778			38.19	0 25.74	4 55	.100	1.00	65.24
1181	CD			778		- 5	36.78				1.00	72.35
1182	CE			778			35.79			.111		
1183	NZ	LYS					34.35	9 26.08	8 55	.161	1.00	78.40
1184	С			778			40.46			.662		59.65
1185	O i	-		778			40.62			.798		60.18
1186	N			779			41.45			.969		56.99
1187	CA	ILE	А	779			4263	4 22.71	6 53	.087	1.00	54.46

A	В	С	D	E	- 2	F	G ,	Н	I	J
1188	СВ	ILE	Α	779		44.003	22.769	53.748	1.00	54.83
1189		ILE				44.106				
1190	CD1			779		45.315	23.813	55.674		59.36
1191		ILĘ				45.029	22.969	52.634	1.00	
1192	Ç			779		42.605	21.521	52.188	1.00	
1193	Ō			779		42.668	20.418	-52.583	1.00	
1194	N ·			780		42.595	21.796	50.931	1.00	
	CA			780		42.509	20.747	49.903		50.51
1196	CB			780		42.343	21.559	48.651		51.35
1197	CG			780		43.260	22.689	48.938		51.32
1198	CD			780		42.732	23.136	50.382		49.94
1199	·Ç			780		43.749	19.936	49.777		49.64
1200	Ō			780		44.947	20.334	49.770		49.57
1201				781		43.459				50.09
1202	ÇA			781		44.559		49.516	1 00	48.15
1203	CB			781.		43.970.		49.235		48.98
1204	CG1			781		43.156		50.458		49.76
	CD1			781			14.976			45.76
1206	CG2			781						49.83
1207	-			781		45.512	15.350 18.088	48.393		48.04
	. 0			781		46.769			1.00	48.83
1209	N			782		44.943		47.261	1.00	47.13
1210	CA			782		45.802		46.083		45.63
1211	ÇB `			782		45.053	18.378	44.769		47.26
	CG			782		44.023	19.394	44.396		44.31
1213	CD			782		42.767	18.675	44.519		46.69
1214	NE			782		42.141	18.708			56.04
1215	CZ	ARG				41.462	17.713	42.740		56.10
1216	NH1			782		40.977	17.877	41.506		56.62
1217	NH2			782		41.306	16.594	43.400		52.79
1218	C.			782		46.663	19.814	45.954		44.90
1219	0.	AŖG				47.349	19.960	44.928		43.83
1220	N			783		46.618	20.701			42.72
1221	CA			783		47.551	21.768,			39.98
1222	ĊВ			783		46.868	23.004			37.95
1223	CG	TRP	Α	783		46.479				35.96
1224	CD1	TRP	Α	783		47.144	24.953			37.75
1225	NE1	TRP	Α	783		46.442	25.528	44.784		33.74
1226	CE2	TRP	Α	783		45.232	24.838	44.689	1.00	27.42
1227	CD2	TRP	Α	783		45.234	23.816	45.630	1.00	27.27
1228	CE3	TRP	Α	783	•	44.158	22.941	45.665	1.00	39.26
1229	CZ3	TRP	Α	783		43.124	23.079	44.774	1.00	36.66
1230	CH2	TRP	Α	783	•	43.148	24.149	43.847	1.00	39.76
1231	CZ2	TRP	Α	783		44.221	25.011	43.792	1.00	24.85
1232	C	TRP	A	783		48.580	21.312	48.036		38.70
1233	0			783		49.540	21.988	48.357	1.00	35.32
1234	N			784		48.408	20.111	48.524	1.00	40.61
1235	CA						19.762	49.727		41.41
1236	CB			784		48.221	19.287			43.19
1237		THR								45.29
1238		THR				48.958				34.46
1239	С	THR	įΑ	784		50.198	18.707	49.543	1.00	42.11
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<u>A</u>	.B.	C	D	E		F	Ģ	. Н	I	J
1240	0	THR	Α	784		49.985	17.747	48.813	1.00	42.17
1241,	N			785		51.327	18.906	50.196		42.96
1242	CA			785		52.418	17.963	50.141		44:73
1243	CB			785		53,572	18.448	50.832	1.00	
1244	C	-		785		52.037				47.53
1245	0			785		51.473	16.538	51.822	1.00	
1246				7.86		52.460	15.590	50.029		48:19
1247	ÇA			786		52.143		50.417		50.36
1248	СВ			786		53.099	13.338	49.569	1.00	
1249	CG			786		53.928	14.299		1.00	
1250	CD			786		53.440	15.726	48.965	1.00	
1251	Ċ .			786		52.522	14.054	51.936	1.00	
1252	0	PRO				51.679	13.490	52.651		51.09
1253	N ·			787		53.714	14.492	52.403	1.00	
1254	CA			787		53.970	14.318	53.884	1.00	
1255	CB			787		55.401	14.738	54.382		54.09
1256	CG			787		55.710	16.248	54.318	1.00	
1257	CD			787		56.214	16.661	52.939		48.91
1258		GLU			•	56.021	15.847	52.033		44.65
1259		GLU				56.840	17.727	52.812		45.31
1260	C .			787		52.848	15.012			55.92
1261	0			787		52.130	14.368		1.00	
1262	N			788		52.713	16.318		1.00	
1263	CA			788		51.644	16.988	55.186	1.00	
1264		ALA				51.446	18.323	54.578	1.00	
1265	Ç.	ALA				50.361	16.145	55.138	1.00	
1266	0			788		49.670	16.086	56.112	1.00	
1267	Ņ			789		50.025	15.490	54.028		56.51
1268	CA			789		48.800	14.678	54.021	1.00	
1269	.CB	ILE	A	789			14.228		1.00	
1270	CG1	ILE	A	78 <b>9</b>		47.712	15.332	51.828		59.40
1271	CD1	ΙĻΕ	Α	789	*	47.797	15.085	50.262		54.27
1272	CG2	ILE	Α	789		47.309	13.160	52.772		60.10
1273	C	ILE	Α	789		48.914	13.392	54.862	1.00	
1274	Ò	ILE	Α	789·		48.062	13.049	55.692	1.00	57.15
1275	N	SER	Α	790		49.990	12.659	54.690	1.00	59.69
1276	CA	SER	Α	790		49.932	11.382	55.316	1.00	61.39
1277	CB	SER	Α	790		50.549	10.325	54.444	1.00	61.41
1278	OG -	SER	Α	790		51.936	10.499	54.315	1.00	61.74
1279	C	SER	Α	790		50.226	11.364	56.846	1.00	63.87
1280	0	SER	Α	790		49.485	10.710	57.593	1.00	64.38
1281	N			791		51.144	12.202	57.303	1.00	63.52
1282	CA	TYR	Α	791		51.439	12.287	58.665	1.00	66.15
-1283	CB			791			12.283	58.781	1.00	68.10
1284	CG	TYR				53.565	11.076	58.118		72.28
1285	CD1			791	-	54.150		56.854		75,63
1286	CE1	TYR				54.755		56.241		78.33
1287	CZ			791		54.770	8.841	56.900		79.84
1288	ОН	TYR	A	791		55.332 54.210	7.732	56.302		78.87
. 1289	CE2	TYR	A	791		54.210	8.722	58.176		79.39
1290		TYR					9.844			76.45
1291	C	TYR	A	791		50.974	13.612	59.238	1.00	66.97

Α	В	C	D	Ė			F	G			H	, I	J	
1292	.0	TYR	Α	791			51.182	13.91	2	60.	434	1.00	66.	84
1293	N	ARG	A	792		٠.	50.369	14.43			399	1.00		
1294	CA	ARĢ	Α	792	*		49.970	15.76	0	58.	851	1.00	67.	30
1295	СВ	ARG	Α	792			48.869	15.75	3	59,	940	1.00	68.	23
1296	CG	ARG	Α	792			47.463	15.37	5	59.	3,5,9	1.00	74.	13
1297	CD	ARG	Α	792			46.869	14.03	0 ·	59.	780	1.00	82,	23
1298	NE	ARG	À	792			45.886	14.12	5	60,	886	1.00	89.	59
1299	CZ	ARG	Α	792			45.202	13.08	0	61.	426	1.00	92.	80
1300	NH1	ARG	Α	792	7. ;		45.357	11.82	9	60.	958	1.00		
1301	NH2	ARG		792	*	٠.	44.347	13.28	5	62.	440	1.00		-
1302	Ç	ARG	A.	792			51.197	16.52	0	59.	320	1.00		
1303	J Q .,	ARG	Α	792			51.139				315	1.00		
1304	· N	ALA	A	793			52.306	16.31			611	1.00		
1305	CA	ALA		793	Š.	:	53.519	17.10				1.00		
1306				793		. :	54.867	16.22			776			
1307	Ċ.	ALA		793		•	53.648				049	1.00		
1308	Ò	AĻĄ	. A	793			54.293	18.37			975	1.00		44
1309	N	PHE		7.94			53.105	19.51			578	1.00		
1310	CA	PHE		794			53.275	20.77			901	1.00		
1311	CB	PHE		794		•		21.71			149	1.00		
1312	ÇG			794			50.889	21.22			553			
1313	ÇD1	PHE		794			50.266	20.11			096	1.00		
	CE1	PHE		794			49.177	19.63			537			-
1315	CZ ,	PHE		794				20.23			394	1.00		
1316		PHE					49.263	21.31			814	1.00		4
1317	CD2			794	• /		50.350	21.81			416		4 -	
1318	C			794		,	54.497	21.51			175	1.00		
1319	0			794			54.691	21.92			279	1.00		
1320	N	THR		795				21.84			.116	1.00		
1321	CA .	ŢĦŖ		795			56.318	22.78			254	1.00		
1322	CB	THR		795				22.09			445			
1323	OG1	THR		795			58.072	21.51			183	1.00	49.	
1324	CG2	THR		795			57.447	20.90			.372	1.00	48.	
1325	C	THR		795	•		56.471	23.77			.117	1.00		
1326	0	THR		795			55.655	23.86			164			
1327	N	SER		796	·	٠.	57.534	24.55			.249	1.00		
1328	CA	SER		796				. 25.47			208	1.00		
1329	CB	. ,		796	5		58.981				547	1.00	39.	
1330	OG C	SER		796			58.361 58.049	27.30			.341 .900	1.00		
1331 1332	Ç			796 796			57.696	24.70 25.19			.871	1.00		
1333	N			797			58,524	23.47			999			
1334	CA			797			58.846	22.72			848	1.00		
1335	CB			797			59.884	21.55			214	1.00		
1336	C			797			57.521	22.16			280	1.00		
1337		ALA					57.431	21.78			. 119	1.00		
1337	N			798			56.545	22.07			.157	1.00		
1339	CA			798				21.62			760	1.00		
1340	CB			798			54.431	21.57			.027	1.00		
1341	OG			798	,		53.766	20.38			.989	1.00		
1342	Ċ			798			54.772	22.84				1.00		
1343	0			798			54.056	22.73				1.00		
1343	γ,	٧٠٠١		, , ,			52.050	22.17		J. J.	, 002	¥.00	. رر .	٠, ر

Ą	В	C.	D	E			F	G	Н	Į	J
1344	N	ASP	Α	799			55.130	24.050	52.406	1.00	35.77
1345	CA	ASP	·A	799			54.498	25.129	51.717	1.00	34.72
1346	СŖ	ASP	Α	799			54.780	26.453	52.486	1.00	33.36
1347	CG ·	ASP	Α	799	٠.		53.791	26.726	53.664		34.25
1348	OD1	ASP	Α	799			52.668		53.890		36.89
1349		ASP					54.068		54.447		37.78
1350	С			799			55.132		50.316		35.69
1351	0	ASP	Α	799			54.570		49.348		37.88
1352	N	VAL	Α	800		•	56.387		50.252		34.31
1353	CA	VAL					57.112				34.33
1354	СB	VAL					58.663			•	34.63
1355		VAL					59.248	•			30.86
1356	CG2	VAL				•	59.460		49.911		29.88
1357	C	VAL					56.427		48.023		34.69
1358	0	VAL				٠.	56.251	24.480	46.945		
1359	N	TRP					56.055	22.823	48.359		
1360		TRP			٠,		55.170	22.045	47.475		34.84
1361	CB			801			54.679		48.117		35.44
1362	CG			801		1.		19.907			33.44
	CD1							20.102			32.49
1364		TRP						19.046			32.97
1365		TRP		_			53.073				33.72
1366		TRP									34.03
1367		TRP					55.320				
1368		TRP					55.378				33.13
1369	CH2	TRP					54.264	16.152			37.50
1370		TRP					53.088	16.888			
1371	C.77			801				22.760			34.91
1372	.0			801			53.531	22.621	45.934		38.09
1373	N			802			53.355	23.576			35.76
1374	CA			802			52.126	24.274			31.87
1375	CB			802	•		51.515				33.54
1376	OG			802			50.899		48.746 49.521		
1377	C .							25.304			
				802 802							31.93
1378 1379	O N						51.690 53.536	25.509		-	
1380	СA			803 803							
1381	CB			803			53.933 55.219	27.101 27.653	45.905 46.473		29.38 29.35
1382		PHE							40.473	1.00	22.33
							55.817		40.009	1.00	32.84
1383		PHE					56.825	28.328	44.672 43.909	1.00	30.14
1384		PHE					57.313	29.296			
1385	CZ			803			56.814	30.547			
1386		PHE					55.846	30.877	44.932		
1387		PHE					55.372	29.962	45.745	1.00	26.06
1388	C			803			54.263	26.610	44.484	1.00	30.18
1389	0			803			54.033	27.263	43.432		27.18
1390	N	GLY					54.777	25.406	44.421		32.24
1391		GLY					54.953		43.033		33.84
		GLY				- '		24.724	42.358		33.65
1393		GLY					53,373	25.159			31.75
1394	N			805			52.558				33.22
1395	CA,	İĻĘ	A	805			51.181	24.192	42.565	1.00	33.26

	A	В	С	D	E		F	G	Н	I	J.
1.	396	СВ	ILE	Α	805		50.229	23.528	43.503	1.00	33.65
		CG1	ILE				50.811	22.097	43.852		37.12
1:	398	CD1	ILE	A	805		50.975	21.032	42.698		32.87
13	399	CG2	ILĘ	Α	805		48.823	23.678	43.010	1.00	32.49
1	400	$C^{-1}$	IĻĘ	Α	805		50.696	25.579	42.206	1.00	31.48
1	401	0	ILE	A	805		50.103	25.710	41.183	1.00	35.71
1	402	N.	VAL	Ą	806		51.019	26.638	42.935	1.00	28.75
1	403	CA	VAL			,	50.549	27.991	42.575	1.00	25.41
1	4 Q 4	CB	VAL	Α	806	. ;	50.961	29.014		1.00	25.04
.1	405		VAL				50.941		43.191		21.16
1	406	CG2	VAL	À	806		50.157	28.790			23.21
1	407	C	VAL				51.341	28.242	41.357		29.80
	408	0 .	ببدء				50.912			1.00	29.17
	409	N			807		52.538	27.649			30.71
	410	CA	MET		807		53.344		40.092		31.44
	411	СВ		-	807	•	54.785	27.399	40.149	1.00	32.92
	412 .	CG			807	* •	55.817		41.066		31.62
	413	SD	MET		807		57,439	27.395	40.955	1.00	39.41
		CE	MET		807	٠.	57.070	26.142			45.05
	415	Ç	MET				52.606	27.493	38.830		31.38
	416	0 .	MET				52.491	28.212	37.876		33.09
	417	N			808		51.936	26.352	38.875	1.00	31.98
	418	CA			808		51.347	25.777	37.672		32.34
	419		TRP				51.102	24.315	38.067		33.08
	420	CG			808		50.501	23.517	37.005		36.11
,	421	CD1			808		51.163	22.792	36.077		36.58
	422	NE1	TRP			-	50.257		35.281		38.43
	423 424		TRP		808		49.005 49.123	22.468 23.335	35.660	1.00	33.35
	424 <b>4</b> 25	CD2 CE3	TRP			•	47.968		36.754 37.345	1.00	31.70 35.04
	425 426		TRP		808	ė	46.744	23.831 23.452	36.868	1.00 $1.00$	36.54
	427·	CH2	TRP		808		46.638	22.571	35.743		38.94
	428	CZ2			808		47.760	22.047	35.138		38.69
	429	C	TRP		808		50.064	26.516	37.482	1.00	33.39
	430	0	TRP		808		49.612	26.851	36.402	1.00	34.70
	431	N			809		49.457	26.832	38.629		33.47
	432	CA			809		48.354	27.714	38.567	1.00	30.38
	433	CB			809		47.563	28.010	39.941		30.54
	434	CG			809		47.069	26.930	40.924		28.60
	435	CD			809		46.429	27.611	42.127		33.46
	436		GLU				45.269	28.166	42.033 "		31.67
					809		47.163	27.747	43.156		40.29
	438	С			809		48.610	29.024	37.793		29.74
1	439	0			809		47,798	29.552	36.933		30.79
	440	N			810		49.656	29.723	38.167		28.13
ļ.	441,	CA			810		49.889	31.000	37.520		26.64
1	442	CB			810		51.022	31.716	38.242		26.67
1	443	CG1	VAL	Α	810		51.575	32.853	37.310		22.89
1	444	CG2	VAL	Ą	810		50.493	32.103	39.725	1.00	27.59
1	445	Ç			810		50.319	30.755	35.999		28.59
	446	Ö			810		49.854	31.404	35.114	1.00	24.03
1	447	N	MET	Α	811		51.055	29.682	35.705	1.00	30.08

A	В	·C	D	Ę		F	G .	Н	I	J
1448	ÇA	мET	Α	811		51.499	29.612	34.339	1:.00	31.44
1449	CB			811		52.744				35.04
1450	CG			811			29.305	35.125		31.45
1451	SD			811	:	54.298.				37.47
1452	CE			811		54.782	30.847	33.012		32.94
1453	C			811	•	50.347	29.060			34.61
1454	0			811		50.403		32.332		32.60
1455	N			812		49.276	28.501.	34.133		34.24
1456	CA			812		48.198	28.074	33.241		32.52
1457	CB	THR	Α	812		47.466	26.795	33.649	1.00	34.00
1458	OG1	THR	Α	812			26.876			32.67
1459	CG2	THR	Α	812		48.398	25.639	33.662.	1.00	30.33
1460	Ç	THR	Ą	812	*	47.135	29.096	33.341	1.00	31.91
1461	0			812		46.025	28.855	32.943	1.00	30.76
1462	N			813		47.464	30.243			31.56
1463	CA			813		46.3,87		33.929	1.00	31.70
1464	CB			813		46.014			1.00	29.74
	CG			813		47.044		31.958		30.09
1466	CD1			81.3		48.104		31.114		28.85
1467		TYR				49.010	33.279 34.593	30.612		29.29
1468				813		48.842	34.593	30.910		29.69
1469	OH			813		49.541	35.655			38.24
1470				813		47.824				31.05
	CD2					46.969				29.25
	C.			813	•	45.134				30.85
1473	0			813		44.083	30.936			30.55
1474	N			814		45.270	30.031	35.753		33.19
	CA			814			29.747			35.27
1476 1477	,C			814 814		43.411 42.283	28.377			
1477	O N			815		44.027	28.190 27.436	36.933 35.672		33.77 36.20
1479	CA			815		43.465	26.106	35.672		39.73
1480	CB			815		44.122		34.568		39.41
1481	CG			815		43.383				45.14
1482	CD			815		41,799	24.015			55.70
1483		GLU				41.019	24.346	35.224		48.24
1484	OE2			815	4.	41.307				64.63
1485	C			815		43.505	25.458	37.133		40.38
	Q	ĢĻU				44.323				41.33
1487	N	-		816	. 0	42.636	24.460			41.29
1488	CA			816		42.531	23.823	38.748		42.57
1489	СВ			816	•	41.035	23.394	38.997		43.10
1490	CG			816		40.769	21.927	39.483		46.76
1491	CD			816		39.291	21.462	39.802		54.39
1492	NE	ARG	Α	816		39.376	20.573	40.974		59.04
1493	CZ	ARG	A	816.			21.041	42.240		63.78
1494	NH1	ARG	Α	816		39.513	20.179	43.233	1.00	65.53
1495		ARG				39.304	22.384	42.511	1.00	59.05
1496	C	ARG				43,464	22.644	38.721	1.00	
1497	0			816		43.398	21.857			42.38
1498	N			817		44.469	22.608	39.597		43.68
1499	CA	PRO	A	817		45.379	21.453	39.672	1.00	41.81

A	В	С	Ď	E			F	G	Н	I	J
1500	СВ	PRO	A	817			46.156	21.699	40.929	1.00	41.78
1501	ĊG .	PRO	Α	817			46.031	23.202	41.122	1.00	
1502	CD	PRO	A	817			44.749	23.678	40.560	1.00	
1503	C			817			44.627	20.101	39.695	1.00	
1504	0	PRO	Α	817			43.467	19.877	40.271	1.00	
1505	N	-		818		,	45.189	19.255	38.843	1.00	44.92
1506	CA	TYŖ	Α	818			44.739	17.910	38.593	1.00	
1507	CB	TYR	Α	818			44.740	17.159	39.884	1.00	
1508	CG	TYR	Α	818			46.093	17.345	40.535	1.00	42.86
1509	CD1	TYŖ	Α	818			47.185	16.479	40.253	1.00	38.28
1510	CE1	TYR	Α	818			48.459	16.660	40.852	1.00	37.76
1511	CZ	TYR	Α	818			48.610	17.633	41.743	1.00	35.89
1512	OH	TYR	Α	818			49.875	,17.735	42.212		42.19
1513	CE2	TYR	Α	818			47.577	18.531	42.049	1.00	33.24
1514	CD2	TYR	Α	818		• .	46.316	18.406	41.423	1.00	37.98
1515	C	TYR	Α	818			43.336	17.995	38.033	1.00	47.01
1516	. 0	TYR	Α	818			42.518	17.049	38.110	1.00	48.49
1517	N	TRP	Α	819			43.005	19.164	37.505	1.00	47.05
1518	CA	TRP	А	819			41.701	19.253	36.867	1.00	50.46
1519	CB			819			41.740	18.432	35.528	1.00	48.43
1520	CG			819			42.829	18.844	34.728	1.00	
1521		TRP					42.959	20.031	34.004		49.18
1522	NE1			819			44.228	20.119	33.441	1.00	43.97
1523	CE2	TŖP					44.918	18.980	33.793		43.12
1524	CD2	TRP					44.087	18.187	34.609	1.00	
1525	CE3	TRP					44.579	16.961	35.056	1.00	
1526	CZ3			819			45.822	16.613	34.720	1.00	
1527 1528	CH2 CZ2	ŢRP		81 <u>9</u> 819			46.585	17.392	33.912	1.00	
1529	C C	TRP					46.157	18.598	33.464 37.751	1.00	
1530	0			819			40.560	18.743 19.134	38.920	1.00	50.78 52.87
1531	N			820			39.757	17.855	37.170	1.00	53.15
1532	CA-			820			38.614	17.241	37.170	1.00	54.37
1533	CB	GLU					37.449	16.941	36.924	1.00	54.32
1534	CG	GLU					36.366	18.002	36.896	1.00	57.57
1535	CD	GLU					36.972	19.390	36.838		61.97
1536	OE1	GLU					36.651	20.232	37.703		63.58
1537	OE2	GĻU					37.815	19.635	35.943	1.00	65.58
1538	С	GLU	A	820			38.939	15.918	38.502	1.00	54.50
1539	0	GLU	Α	820			38.032	15.090	38.695		56.40
1540	N	LEU	A.	821			40.212	15.698	38.795	1.00	55.83
1541	CA	LEU	Α	821			40.604	14.432	39.369	1.00	54.87
1542	CB.	LEU	Α	821			42.050	14.101	39.090	1.00	54.66
1543	CG			821			42.599	13.702	37.713	1.00	55.17
1544		LEU					44.138	14.023	37.650		59.74
1545	CD2	LEU					42.372	12.223	37.358		57.81
1546	C	LEU					40.311	14.322	40.862		55.57
1547	0			821	•		40.184	15.328	41.610		52.91
1548	N	SER					40.208	13.053	41.283		55.96
1549	CA			822			39.800	12.777	42.619		56.75
1550 1551	CB			822			39.132		42.709	1.00	
TOOL	OG	SER	А	044			40.163	10.441	42.724	Ť.00	61.05·

A . A	В	С	D	E	٠- ،	F	G	Н	I	J
1552	Ç	SER	Α	822		41.015	12.742	43.471	1.00	56.82
1553`	Ô			822		42.111	12.351	43.029	1.00	55.43
1554	N			823		40.752	13.039	44.733	1.00	57.38
1555	CA			823		41.802	13.209	45.699	1.00	58.87
1556	CB			823		41.242	13.615	47.073	1.00	58.15
1557	CG	ASN				40.815	15.094	47.094	1.00	
1558		ASN				41.592	15.963	46.785	1.00	
1559		ASN				39.582	15.363	47.432	1.00	61.31
-	·C			823		42.513	11.941	45.660		59.12.
1561	0			823		43.753	11.872	45.759		60.64
1562	N			824			10.936	45.733	1.00	
1563	CA			824		42.274				
1564	CB			824			9.608	45.413	1.00	60.00
1565	CG			824		41.115		45.445	1.00	60.99
1566		HIS				41.565	7.246	45.256	1.00	67.03
						42.251	6.566		1.00	72.16
1567		HIS				42.594	5.370	45.772	1.00	77.00
1568		HIS				42.189	5.271	44.513	1.00	75.73
1569	CD2	HIS				41.551	6.441	44.161	1.00	74.03
1570	C			824		43.240	9.346	44.223	1.00	58.19
1571	0			824		44.439	9.014	44.396	1.00	55.80
1572	N			825		42.701	9.531	43.014	1.00	57.37
1573	CA			825		43.514	9.516	41.785	1.00	56.22
1574	CB			825		42.623	10.008	40.632		57.84
1575				825		41.881	<b>8.907</b>	39.881		62.50
1576	CD			825		40.412	9.114	39.860		67.90
1577	OE1	GĻU				39.948	10.076	39.213	1.00	70.44
1578		GĻU				39.725	8.297	40.518		74.63
1579	C			.825		44.764	10.399	42.063	1.00	54.94
1580	0	GLU				45.937	9.927		1.00	54.45
1581	N			826		44.529	11.648	42.467	1.00	53,85
1582	CA			826		45.667	12.540	42.776	1.00	52.93
1583	CB	VAL				45.208	13.870	43.319		51.81
1584	CG1					46.447	14.871	43.452	1.00	52.68
1585	CG2					44.197	14.432	42.370	1.00	51.90
1586	C .	VAL	Α	826		46.759	11.943	43.687	1.00	53.42
1587	0	VAL	Α	826		47.967	11.917	43.378	1.00	53.40
1588	N	MET	Α	827		46.363	11.447	44.821	1.00	53.41
1589	CA	MET	A	827		47.422	10.969	45.636	1.00	55.16
1590	CB	MET	Α	827		47.018	10.882	47.148	1.00	55.87
1591	CĢ	MET	Α	827		45.490	10.429	47.445	1.00	60.83
1592	SD	MET	Α	827		44.615	10.847	49.114	1.00	65.49
1593	CE	MET	Α	827		46.288	11.405	49.883	1.00	54.71
1594	С	MET	Α	827		48.133	9.757	44.935	1.00	54.89
1595	0	MET	Α	827		49.401	9.704	44.875		55.10
1596	Ν.	ALA	Α	828		47.375	8.861	44.295		55.10
1597	CA	ALA	Α	828		48.085	7.757	43.600		55.33
1598	СВ	ALA				47.165	6.654	43.057		54.77
1599	С	ALA				49.049	8.267	42.521		54.77
1600	0	ALA				50.167	7.792	42.403		54.26
1601	N	ALA				48.698	9.315	41.805	1.00	
1602	CA	ALA				49.672	9.732	40.804		56.05
1603	СВ	ALA				49.103	10.831	39.898		56.37
				-						30.0.

· A	В	C	D	E			F	G	H H	I	J	
1604	C ·	ALA	A	829			50.966	10.177	41.468	1.00	56.31	
1605	0	ALA	Α	829			52.116	9.756	41.108	1.00	56.19	
1606	N	ILE	Α	830			50.765	11.020	42.471	1.00	56.52	
1607	CA	ILE	Α	830			51.891	11.651	43.112	1.00	56.87	
1608	СB	·ILE	Ą	830			51.446	12.581	44.293	1.00	57.35	
1609	CG1	ILE	Α	830			50.835	13.861	43.719	1.00	56.71	
1610	CD1	ILE	Α	830			51.574	14.320	42.496	1.00	47.37	
1611	CG2	ILE	Α	830			52.641	12.975	45.149	1.00	52.92	
1612	Ç	ILE	Α	830			52.767	10.611	43.637	1.00	58.16	
1613	0	ILE	Ą	830			54.003	10.637	43.431	1.00	58.31	
1614	N	ASN	Α	831			52.120	9.692	44.344	1.00	59.54	
1615	CA	ASN	Α	831			52.883	8.672	45.016	1.00	60.79	
1616	CB	ASN	Α	831			52.033	7.966	46.046	1.00	62.19	
1617	CG	ASN	Α	831			51.972	8.768	47.324	1.00	65.87	
1618	OD1	ASN	À	831			52.993	9.400	47.727	1.00	66.49	
1619	ND2	ASN	Α	831			50.781	8.826	47.934	1.00	68.01	
1620	С	ASN	Α	831			53.492	7.757	44.044	1.00	59.66	
1621	Ö	ASN	Α	831			54.558	7.248	44.274	1.00	58.77	
1622	N	ASP	Α	832			52.860	7.609	42.896	1.00	59.28	
1623	CA	ASP	Α	832.			53.530	6.790	41.905	1.00	60.01.	
1624	CB	ASP	Α	832			52.494	6.118	41.014	1.00	60.55	
1625	CG	ASP	A	832			52.076	4.698	41.576	1.00	66.55	
1626	OD1	ASP	Α	832			51.135	4.051	41.007	1.00	71.66	
1627	OD2	ASP	Α	832			52.672	4.151	42.569	1.00	63.91	
1628	C	ASP	A	832			54.697	7.455	41.121	1.00	59.37	
1629	Ο.	ASP	Ą	832		•	55.088	6.979	40.039	1.00	58.56	
1630	N	$\operatorname{GLY}$	·A	833			55.293	8.525	41.664	1.00	58.64	
1631	CA	GLY	Α	833		. •	56.220	9.303	40.850	1.00	57.55	
1632	C .	GLY	Α	833			55.529	9.892	39.615	1.00	57.72	
1633	0			833			55.730	9.408	38.503		61.73	
1634	N	PHE	Α	834			54.711	10.932	39.806	1.00		
1635	CA	PĦĖ	Α	834			53.992	11.588	38.713	1.00		
1636	СВ	PHE	.A	834			52.692		38.438	1.00		
1637	CG			834			52.758	9.760	37.377	1.00		
1638	CD1	PHE					53.292	9.991	36.064		61.07	
1639	CE1			834	٠.		53.276	8.953	35.053	1.00	58.90	
1640		PHE						7.624	35.386		60.52	
1641		PHE					52.202	7.400	36.702	1.00		
1642		PHE				-	52.210		37.656		60.30	
1643	•	PHE					53.471	12.969	39.156		50.70	
1644	0			834			52.879	13.061	40.234		50.00	
1645	N			835	•		53.578	13.973	38.269		47.79	
1646	CA			835			53.278	15.397	38.529		47.62	
1647	CB			835		•	54.544	16.240	38.538		47.50	
1648	CG			835			55.739	15.796	39.492	1.00		
1649	CD			835	•		55.161	15.694	40.870	1.00	48.58	
1650	NE	ARG					56.010		41.866	1.00	46.46	
1651	CZ			835			55.778	13.923	42.395	1.00	45.45	
1652		ARG					54.763	13.179	41.994	1.00	49.16	
1653		ARG					56.575	13.478	43.301	1.00	47.75	
1654	C			835		٠.	52.392	16.027	37.439	1.00		
1655	0	AKG	A	835			52.160.	15.415	36.403	Ť.00	46.68	

A	В	С	D	E		. F	G	H	Į.	J
1656	N ·	LEU	Α	836		51.883	17.246	37,678	1.00	42,81
1657	CA	LEU	Αʻ	836	-	51.065	17.947	36.699		41.01
1658	ĊВ	LEU	Α	836		50.651	19.385	37.117		38.39
1659	CG	LEU	Α	836		49.702	19.386	38.291	1.00	40.70
1660	CD1	LEU.				49.697	20.808	38.794	1.00	
1661	CD2			836		48.341	18.855			33.85
1662	С			836	. 1	51.944	18.162	35.569		38.14
1663	0			836		53.047	18.472	35.801		38.29
1664	N	PRO	Α	837		51.413	18.144	34.359		38.07
1665	CA			837		52.214	18.316	33.157		36.29
1666	CB			837		51.232	17.819	32.075		36.93
1667	CG	PRO	Α	837		49.907	18.505	32.492		35.54
1668	CD	PRO	Α	837		49.973	18.141	34.008	1.00	37.87
1669	- Ç	PRO	Α	837		52.525	19.778	32.964	1.00	36.09
1670	0	PRO	·A	837	•	51.936	20.719	33.673	1.00	34.39
1671	N	THR	Α	838		53.406	20.032	32.013	1.00	34.01
1672	CA	THR	Α	838	•	53.894	21.359	31.903	1.00	35.98
1673	CB	THR	Α	838		55.120	21.485	30.963	1.00	36.64
1674	OG1	THR	Α	838		55.395	22.892	30.765	1.00	39.83.
1675	CG2	THR	A	838		54.736	21.181	29.545		38.71
1676	С	THR	Ą	838		52.803	22.116	31.252	1.00	38.36
1677	0 -	THR	A	838		52.197	21.670	30.274		39.45
1678	N	PRO	A	839		52.619	23.313	31.726		36.96
1679	CA			839		51.719	24.197	31.114		37.46
1680	CB			839		51.724	25.405	32.037		34.44
1681	CĢ			839		52.681	25.139	33.091		33.53
1682	CD			839	•	53.318	23.890	32.865		37.82
1683	C .	PRO				52.285		29.749		38,53
1684	0			839	- 4-	53.481	24.718	29.536		40.65
1685	.N			840		51.382	24.872	28.840	1.00	40.11
1686	CA			840		51.632	25.423	27.501	1.00	40.90
1687	CB	MET		840		50.230	25.730	26.953	1.00	42.06
1688 1689	CG SD	MET MET		840 840		50.129 50.014	26.167 24.569	25.481 24.486	1.00 $1.00$	50.27 67.03
1690	CE	MET		840		51.027	25.324	23.049	1.00	53.52
1691	C	MET		840		52.554	26.728	27.544		40.78
1692	0	MET		840		$52.33\frac{1}{2}$	27.704		1.00	41.90
1693	Ŋ			841		53.600	26.738	26.735		39.46
1694	CA			841		54.541	27.802	26.665		38.39
1695	CB			841	•	53.847	28.967	26.104		36.97
1696	CG .			841		53.255	28.676	24.629		40.53
1697		ASP				53.550	27.617	23.972		39.77
1698	-	ASP				52.445	29.466	24.066		36.62
1699	Ç			841		55.291		28.007	1.00	
1700	0	ASP	Α	841		55.749	29.129	28.326	1.00	41.50
1701	· N			842		55.381	27.056		1:00	
1702	CA			842	*	56.121	27.250			37.64
1703	CB			842		55.781	26,076	31.018		35.73
1704	SG			842		56.126	26.564	32.674		37.11
1705	C.	CYS				57.616	27.200	29.840		36.94
1706	0			842		58.077	26.258	29.219		33.74
1707	Ņ	PRO	A	843		58.352	28.267	30.217	1.00	37.65

A	В	С	D	E		F	G	Н	I	J	
1708	CA	PRO	Α	843		59.804	28.178	30.251	1.00	34.75	
1709	CB			843		60.257	29.383	31.062		31.74	
1710	CG			843		59.216	30.413	30.790		38.14	
1711.	CD			843		57.864	29.626	30.588			
1712	C			843		60.258	26.981	30.973		34.58	
1713	0 .			843		59.616	26.646	32.033		34.71	
1714	N			844		61.364	26.414	30.439		30.44	
1715	CA			844		61.947	25.239	30.957		32.01	
1716	СВ			844		63.155	24:861	30.092		32:60	
1717	O.G			844		63.939	23.905	30.735		32.71	
1718	C			844		62.421	25.519	32.326		33.01	
1719		SER				62.327	24.669	33.152		34.58	
1720	N			845		62.988		32.593		34.49	
1721	CA			845		63.384	26.961	34.006		36.49	
1722	CB			8.45	٠.	64.315	28.212	34.109		35.62	
1723	C			845		62.124	27.066	34.982		34.14	
1724	.0			845		62.137	26,522	36.021		35.47	
1725	N			846	·	60.992	27.590	34.558	1.00	33.95	
1726	CA			846		59.787	27.597	35.457	1.00	31.95	
1727	CB			846		58.778	28.539		1.00	33.95	
1728	CG1			846		59.535	29.848	34.737		27.88	
1729	CD1			846	•	59.817	30.375	36.417		26.15	
1730	CG2			846		57.462	28.631	35.735		28.18	
1731	C			846		59.233	26.236	35.656		32.51	
1732	0			846		•	25.847	36.786		31.68	
1733	. И .			847		59.145	25.413	34.603		35.30	
1734	CA			847		58.714	23.984	34.822		35.63	
1735	СВ			847.		58.713	23.167	33.520	1.00	35.69	
	CG			847		57.927	21.911	33.661		32.14	
1737	CD1			847		58.477	20.696	33.310		27.77	
1738	CE1			847		57.759	19.516	33.469°		33.54	
1739	CZ			847	. 9	56.522	19.509	34.064	1.00	31.43	
1740	OH			847		55.943	18.320	34.231		40.26	
1741	CE2			847		55.917	20.681	34.490.	1.00	35.09	
1742		TYR				56.645	21.928	34.253	1.00	32.81	
1743	C	•		847		59.577	23.180	35.723	1.00	36.62	
1744	0			847		59.090	22.401	36.510	1.00	38.41	
1745	N			848	*	60.874	23.301	35.605		38.13	
1746	CA	GLN	Α	848		61.806	22.493	36.466		39.42	
1747	CB	GLN	A	848		63.262	22.533	35.863		42.35	
1748	CG	GLN	Α	848		63.313	21.927	34.477		38.83.	
1749	CD	GLN	Α	848		62.999	20.404	34.549		44.22	
1750	OE1	GLN	Α	848	1.	62.228	19.877	33.736	1.00	48.28	
1751	NE2	ĢLN	Α	848		63.569	19.735	35.485		33.20	
1752	С	GLN	Α	848		61.821	22.902	37.950		36.31	
1753	0			848		61.762	22.045	38.829		35.55	
1754	N	LEU	Α	849		61.847	24.194	38.200		37.37	
1755	CA			849		61.716	24.680	39.552		38.40	
1756	СВ	LEU	Α	849	-	61.552	26.151	39.507		37.22	
1757	СĢ	LEU	A	849		61.237	26.406			36.60	
1758	CD1	LEU	Α	849		62.551	26.128	41.744		24.80	
1759	CD2	LEU	Α	849		60.902	27.913	40.922		33.30	
							•				

Α	В	Ċ	D	E		F	G	H	I.	J
		•			•		:			
1760	Ċ			849		60.521		40.250		39.79
1761	0			849		60.540	23.685	41.468		43.91
1762	N	MET				59.445	24.005	39.489		39.24
1763	ÇA			850		58.240	23.461	40.122		39.96
1764	CB			850		56.904	23.372	39.299		40.95
1765	CG			850		56.413	24.449	38.405		41.55
1766	SD			850		55.117	23.680	37.431		39.78
1767	CE			850		54.574	24.992	36.847	1.00	
1768	С			850		58.422	22.040	40.423		37.52
1769	0			850		57.783	21.573			38.53
1770	N			851		58.853	21.295	39.415		35.10
1771	CA			851		59.106		39.608		37.40
1772	CB			851	• •	59.826	19.275	38.407		36.06
1773	CG			851	-	58.932	19.130	37.200		35.21
1774	SD			851		57.537	18.184	37.411		43.74
1775	CE			851		58.198	16.716	37.455	1.00	
1776	С			851		60.128	19.901	40.767		40.11
1777	0			851		60.201	18.982	41.570		38.44
1778	N			852		60.894	20.980	40.908		39.68
1779				852		61.720	20.958	42.059		42.72
	·CB			852		62.918	21.868	41.882		41.86
1781	CG			852		63.758	21.298	40.778		52.95
	CD			852		65.096	22.010	40.537		62.78
	· OE1					65.118	23.232	40.419		60.88
1784		GLN			*	66.203	21.229	40.419		69.19
1785	C			852.		60.804		43.309		43.28
1786	0			852		60.916	20.491	44.309		43.36
	N			853		59.818	22.048			43.67
1788	CA			853		59.046	22.136			41.63
1789	CB			853		58.067		44.417		40.32
1790	SG			853			24.771			36.67
1791	C			853		58.330	20.847	44.697		42.12
1792	0			853		57.934	20.608	45.832		42.69
1793	N			854		58.115	20.013	43,675		42.37
1794	CA			854		57.383	18.705	43.926		41.75
1795	CB			854		. 56.200		42.946		38.35
1796 1797	CG CD1			854 854		55.327 54.684	19.556 20.557	42.514 43.330		37.67 35.33
1798	NE1					53.972		42.509		37.18
1799		TRP				54.150	21.016			36.61
1800		TRP				54.937				38.28
1801						55.238	19.302	39.913		35.92
1802	-	TRP				54.644	19.863	38.774		35.78
1803		TRP				53.886	20.998	38.860		37.11
1804		TRP				53.642	21.597	40.055		36.88
1805	C			854		58.249		44.163		43.48
1806	O N			854		57.788	16.232	43.928		40.95
1807	N			855		59.470	17.495			46.45
1808	CA			855		60.141	16.215			47.97
1809	CB			855	• =	61.562	16.399			49.14
1810	CG			855		62.300	17.429			53.78
1811	CD	الانتك	А	855		63.599	16.874	43.944	1.00	57.56

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Α	В	C	D	E		F	G	H : .	I	J
1812	OE1	GLN	Α	855		64.568	17.630	43.788	1.00	58.49
1813	NE2	GLN				63.597	15.574	43.550	1.00	
1814	C	GLN		855		59.503	15.583	46.185	1.00	
1815	0	GLN				59.135	16.279	47.106		48.87
1816	N			856		59.417	14.251	46.193		50.70
1817	CA			856		58.760	13.603	47.270	1.00	
1818	ÇВ	GLN	Α	856		58.589	12.110	47.008	1.00	52.72
1819	ĊĠ	GĻN	Α	856		57,987	11.341	48.190	1.00	*
1820	CD	GĻN	Α	856		56.902	10.378	47.730	1.00	
1821	OE1	GLN	Ą	.856		57.145	9.159	47.626	1.00	70.03
1822	NE2	GLN	A	856		55.687	10.921	47.421	1.00	70.24
1823	C	GLN	Α	856		59.464	13.844	48.587	1.00	
1824	. 0			856		58.839	13.901	49.641	1.00	51.92
1825	N	GLU	Α	857		60.776	13.978	48.540	1.00	
1826	CA			857		61.455	14.329	49.763	1.00	52.94
1827	CB			857		62.751	13.574	49.888	1.00	55.76
1828	CG	GLU			. 9	63.760	13.655	48.776		62.73
1829	CD	GLU				64.555	12.357	48.808	1.00	75.13
1830	OE1			857		65.792	12.306	48.476	1.00	76.93
1831	OE2	GLU				63.876	11.369			80.58
1832	C .			857		61.642	15.763	50.058		51.09
1833	0	GĽU		857		62.330	16.518	49.385	1.00	50.10
1834	N			858		61.062	16.140	51.162	1.00	51.40
1835	CA	ALA				60.918	17.553	51.501	1.00	
1836	CB			858	•	60.376	17.634	52.879	1.00	
1837	C			858		62.236	18.232	51.481	1.00	
1838	Ο.			858		62.369	19.416	51.138	1.00	
1839	N			859		63.210	17.476	51.999		52.64
18 <b>4</b> 0 1841	CA CB			859 859		64.489 65.270	18.044 17.114	52.311 53.176	1.00	51.38
1842	СВ			859		65.149	18.322	51.024	1.00	52.83 50.59
1843	0			859		66.033	19.188	50.921	1.00	52.09
1844	N			860		64.677	17.712	49.971	1.00	49.07
1845	CA			860.		65,287	18.206	48.702	1.00	
1846	CB	·ARG				65.434	17.117	47.664	1.00	
1847	CG			860		66.326	15.929	48.098		56.52
1848	CD			860	•	66.767	14.950	46.979		67.86
1849	NE			860		67.897	15.592	46.310	1.00	79.99
1850	CZ			860		67.957	15.919	45.009		84.18
1851				860		69.035	16.555	44.538		86.30
1852	NH2	ARG	A	860		66.970.	15.583	44.177		86.46
1853	Ç	ARG	Α	860	•	64.642	19.423	48.073		47.17
1854	Ö	ARG	Α	860		65.289	20.026	47.190		48.00
1855	N	ARG	., <b>A</b>	861		63.390	19.778	48.428	1.00	43.32
1856	CA	ARG	Α	861	. •	62,722	20.886	47.710	1.00	42.70
1857	CB	ARG	Α	861		61.279	21.149	48.284	1.00	43.25
1858	CG			861		60.375	19.925	48.223		38.41
1859	CD			861			19.969	48.886		33.61
1860	NE			861		58.563	18.555	48.956		39.84
1861	CZ			861		57.675	18.061	49.776		40.88
1862		ARG				57.041	18.838	50.621		47.18
1863	NHŻ	ARG	A	861		57.448	16.786	49.809	1.00	42.74

Α	В	C	Ď	E			F	G	Н	I.	J
1864	С	ARG	A	861			63.548	22.127	47.982	1.00	40.90
1865	0 -			861			64.151,		49.048		45.17
1866	N	PRO	Α	862			63.579	23.123	47.135	1.00	38.11
1867	CA.	PRO	À	862	· · ′		64.366	24.296	47.443		36.92
1868	CB	PRO	Α	862			64.173	25.174	46.248	1.00	37.49
1869	CG	PRO	Α	862			62.978	24.528	45.479	1.00	34.16
1870	CD	PRO	Ą	862			62.827	23.232	45.881	1.00	36.86
1871	Ċ	PRO	Α	862			63.565	24.973	48.494	1.00	40.68
1872	0	PRO	A	862			62.378	24.679	48.675	1.00	38.28
1873	N .	ĻYS	Α	863			64.195	25.936	49.155	1.00	43.10
1874	CA	LYS	Ą	863			63.626	26.658	50.273	1.00	43,38
1875	CB	LYS	Α	863			64.689	26.934	51.402	1.00	44.69
1876	CG	LYS	Α	863			64.809	25.604	52.283	1.00	50.07
1877 -	ÇD	LYS	À	863			65.801	25.501	53.459	1.00	60.38
1878	ÇE	LYS	Α	863			65.260	26.211	54.856	1.00	
1879	NZ	LYS	.A	863			66.287	26.302	55.993	1.00	63.31
1880	Ç	LYS	Α	863			63.235	27.905		1.00	43.27
1881	Ò	LYS	Α	863			63.753	28.275	48.476	1.00	45.68
1882	. <b>N</b>	PHE	Α	864			62.350	28.605	50,290	1.00	40.33
1883	CĄ	PHE	A	864			61.830	29.779	49.682	1.00	37.37
1884	ÇB .	PHÈ	Α	864		•	60.731	30.422	50.528	1.00	35.46
1885	CG	PHE	Α	864			59.441	29.808	50.353	1.00	32.57
1886	CD1	PHE	Α	864			58.869	29.099	51.365	1.00	34.21
1887	CE1	PHE	Α	864			57.672	28.495	51.231	1.00	31.67
1888	CZ	PHE	Α	864			56.964	28,622	49.961	1.00	31.72
1889	CE2	PHE	Α	864			57.525	29.380	48.954		30.90
1890	CD2	PHE	Α	864			58.743	29.927	49.129	1.00	37.14
1891	C	PHE	Α	-864			62.874	30.743	49.304	1.00	38.42
1892	0	PHE	Α	864			62.717	31.509	48.307		40.96
1893	N			865			63.875	30.905	50.126		38.95
1894	CA			865			64.964	31.837	49.712		40.21
1895	СB			865			66.009	31.987	50.851		40.74
1896							65.712	31.328	48.376	1.00	
1897	0 .			865			66.186	32.133	47.578		40.17
1898	N			866			65.855	30.036	48.142		38.13
1899	CA			866			66.437	29.657	46.850		41.20
1900	CB			866			66.592	28.205	46.710		42.25
1901	CG			866			67.356	27.563	47.886		46.38
1902		ASP					68.194	28.328	48.467		45.69
1903							67.164	26.319	48.255		46.52
1904	C			866			65.471		45.734		43.03
1905	0			866			65.895	30.862	44.786		43.71
1906	N			867	-		64.154	29.834	45.959		41.85
1907	CA			867			63.161	30.097	44.945		39.25
1908		ILE				•	61.738	29.686	45.429		40.79
1909		ILE					61.715	28.196	45.547		37.78
1910		ILE				i	60.587	27.644	46.393		31.95
1911		ILE					60.673	29.978	44.377		40.13
1912	C.			867			63.262	31.517			38.15
1913		ILE					63.383	31.839			34.00
1914	N C 2			868		-	63.293		45.587		41.76
1915	CA	۷AĻ	Α	868			63.363	33.826	45.221	T.00	42.24

A,	В	C	D	E			F	G	H	I.	J
1916	· CB	VAL	Α	868	`		63.468	34.646	46.495	1.00	43.37
1917		VAL					63.906	36.180	46.204		36.83
1918	CG2	VAL	Α	868			62.167	34.602	47.161		44.87
1919	Ç	VAL	A	868			64.595	34.086	44.346	1.00	
1920	0	VAL	Α	868			64.566	34.653	43.250	1.00	
1921	N	SER	Α	869			65.709	33.593	44.819	1.00	43.82
1922	CA			869			66.947	33.788	44.034	1.00	45.81
1923	CB	SER	Α	869			68.135	33.277	44.868	1.00	46.51
	OG			869			69.256	32.973	44.081	1.00	55.81
1925	Ç			869			66.932	• •	.42.595	1.00	43.21
1926	0			869			67.448		41.646	1.00	
1927	N			870			66.309	32.041	42.410	1.00	
1928	CA			870			66.341	31.421	41.081		41.53
1929	CB			870			65.721		41.130	1.00	
1930	CG1			870		·	66.726	29.091	41.617	1.00	37.62
1931	CD1			870		٠	65.913	27.844	42.278		34.59
1932	CG2			870			65.227	29.674	39.764		37.43
1933	C .			870				32.101	40.057	1.00	
1934	0			870			65.629		38.862		45.96
. 1935	N			871 871			64.743	32.960	40.589		42.32
193 <u>6</u> 1937	CA CB				•		63.690	33.613	39.857		39.74
1938	CG			871 871			62.477 61.084	33.514 32.948			36.70° 42.57.
1939		LEU									
1940		LEU					61.128 60.155	31.584 32.800	39.753 41.647		39.10 33.43
1941	C C			871			64.073	35.062	39.677		40.56
1942	0.			871			63.729	35.716	38.685	1.00	39.95
1943	N			872			64.858	35.566	40.655		43.30
1944	CA			872			65.641	36.754	40.333		45.25
1945	CB			872			66.270	37.416	41.537	1.00	
1946	CG			872			65.296	38.054	42.370	1.00	
1947	OD1	ASP					64.560	38.981	41.884	1.00	
1948	OD2	ASP					65.222	37.729	43.584	1.00	
1949	C	ASP	Α	872			66.617		39.147		42.59
1950	0	ASP	A	872			66.673	37.301	.38.244		40.36
1951	N·	LYS	Α	873			67.123	35.244	39,030		43.85
1952	CA			873			68.158	35.043	37.946	1.00	46.85
1953	CB		A	873			68.848	33.639	37.915	1.00	47.60
1954	CG	LYS	Α	873			69.201	33.005	36.461	1.00	56.65
1955	CD			873			70.697	32.494	36.301		64.86
1956	CE			873			71.327	31.621	37.470		72.42
1957	NZ			873			72.948	31.544	37.520		77.28
1958	С			873			67.273	35.234	36.716		45.54
1959	0			873			67.554	36.043	35.848		47.71
1960	N			874			66.177	34.496	36.670		44.00
1961	CA			874			65.345	34.413	35.523		41.76
1962	ĊВ			874			64.257	33.510	35.950		42.33
1963	CG CD1			874			64.335	32.030	35.627		43.61
1964 1965	CD1	LEU					65.728	31.506	34.940		39.31
	CD2	LEU					63.820	31.183	36.838	1.00	
1966 1967	C 0			874 874			64.842	35.818	35.223		41.73
1907		πĖÜ	ч	ο / <del>4</del>		•	64.974	36.328	34.103	T.00	40.87

Α	В	Ç	D	E	8 .	F	G	H	·I	J
1968	N	ILE	Α	875	•	64.356	36.539	36.219	1.00	41.36
1969	CA	ILE	Α	875		63.986	37.926	35.895		41.48
1970	CB	ILE	Α	875		63.241	38.556			41.83
1971	CG1	ILE	Α	875		61.848	37.830	37.313		41.11
1972	CD1	ILE	Α	875		61.307		38.707		42.11
1973	CG2	ILE	Α	875		63.128	39.991	36.768		39.85
1974		ILE				65.128	38.822	35.369		43.50
	0			875.		64.949	39.592	34.357		42.05
1976		ALA	Α	876		66.305	38.724	36.005		43.68
1977	CA -			876		67.460	39.526			47.29
1978	CB			876		68.686	39.705	36.633		45.33
1979	C			876		67.981	39.177	34.150		47.94
1980	0			876		68.349	40.096	33.381		49.38
1981	N .			877		67.882	37.894			49.67
1982	CA			877			37.448	32.433		48.36
1983	СВ			877		69.359	36.469	32.485		47.02
1984	C ·			877		67.051	36.862	31.723		48.54
1985	0	ALA	A	877		66.995	35.680	31.364		48.87
1986	Ŋ			878		66.165	37.720			48.50
1987	CA	PRO	Ą	878		64.883	37.290	30.768		50.31
1988	CB	PRO	A	878		64.248	38.609	30.314		49.52
1989	CG	PRO	Α	878		65.076	39.594	30.795	1.00	48.76
1990	CD	PRO	Α	878		66.399	39.140	31.199		47.09
1991	Ç ·	PRO	Α	878		65.005	36.339	29.595		51.52
1992	0	PRO	Α	878		64.080	35.558	29.329		52.11
1993	N	ASP	Α	879		66.118	36.423	28.857		53.47
1994	CA	ASP	Α	879		66.313	35.529	27.704	1.00	53.74
1995	CB			879 <sub>.</sub>		67.561	35.840	26.877	1.00	54.59
1996	CG	ASP	Α	879.		67.426	37.117	26.105	1.00	57.51
1997	OD1	ASP				66.311	37.639	25.969		61.05
1998	OD2	ASP	Α	879		68.385	37.705	25.618		63.66
1999	С	ASP	Α	879		66.337	34.121	28.137		52.26
2000	Ο.	ASP	Α	879		66.064	33.243	27.320		52.16
2001	N			880		66.687	33.897	29.401		50.31
2002	CA			880		66.494	32.578	30.001		49.70
2003	CB	,		880		66.869	32.588	31.504		52.27
2004	OĢ			880		65.870		32.357		50.20
2005	C			880		65.026	32.063	29.841		49.60
2006	О			880		64.796	30.895			49.66
2007	N			881		64.021	32.922	29.716		47.09
2008	CA					62.691	32.401			44.70
2009	CB			881		61.748		30.429		42,64
2010	CG-			881			33.854			37.67
2011	CD1			881	-	61.053	35.053	32.335		46.29
2012	CD2			881		61.905	32.636	32.698		30.01
2013	C .			881		62.230	31.982	28.406		46.11
2014	Ο,			881		61.063	31.708	28.161		46.79
2015	N			882		63.166	31.996	27.480		46.05
2016	CA			882	0.4.4	62.872		26.034		44.09
2017	CB			882		63.999	32.408	25.172		42.68
2018	CG			882		63.822	33.855	24.808		50.65
2019	CD	пхо	А	882		64.615	34.299	23.548	1,00	57.85

2021       NZ       LYS       A       882       66.063       32.670       22.379       1.0         2022       C       LYS       A       882       62.712       30.397       25.609       1.0         2023       O       LYS       A       882       62.057       30.189       24.624       1.0         2024       N       THR       A       883       63.413       29.481       26.255       1.0         2025       CA       THR       A       883       63.327       28.070       25.917       1.0         2026       CB       THR       A       883       64.642       27.295       26.300       1.0         2027       OG1       THR       A       883       65.753       27.896       25.645       1.0         2028       CG2       THR       A       883       64.619       25.861       25.703       1.0         2029       C       THR       A       883       62.325       27.441       26.760       1.0         2030       O       THR       A       883       62.376       27.619       27.985       1.0         2031       N       LEU	
2021       NZ       LYS       A       882       66.063       32.670       22.379       1.0         2022       C       LYS       A       882       62.712       30.397       25.609       1.0         2023       O       LYS       A       882       62.057       30.189       24.624       1.0         2024       N       THR       A       883       63.413       29.481       26.255       1.0         2025       CA       THR       A       883       63.327       28.070       25.917       1.0         2026       CB       THR       A       883       64.642       27.295       26.300       1.0         2027       OG1       THR       A       883       65.753       27.896       25.645       1.0         2028       CG2       THR       A       883       64.619       25.861       25.703       1.0         2029       C       THR       A       883       62.325       27.441       26.760       1.0         2030       O       THR       A       883       62.376       27.619       27.985       1.0         2031       N       LEU	0 57.83
2022       C       LYS A 882       62.712       30.397       25.609       1.0         2023       O       LYS A 882       62.057       30.189       24.624       1.0         2024       N       THR A 883       63.413       29.481       26.255       1.0         2025       CA THR A 883       63.327       28.070       25.917       1.0         2026       CB THR A 883       64.642       27.295       26.300       1.0         2027       OG1 THR A 883       65.753       27.896       25.645       1.0         2028       CG2 THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	0 62.95
2023       O       LYS A 882       62.057       30.189       24.624       1.0         2024       N       THR A 883       63.413       29.481       26.255       1.0         2025       CA       THR A 883       63.327       28.070       25.917       1.0         2026       CB       THR A 883       64.642       27.295       26.300       1.0         2027       OG1       THR A 883       65.753       27.896       25.645       1.0         2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	0 39.93
2024       N       THR A 883       63.413       29.481       26.255       1.0         2025       CA       THR A 883       63.327       28.070       25.917       1.0         2026       CB       THR A 883       64.642       27.295       26.300       1.0         2027       OG1       THR A 883       65.753       27.896       25.645       1.0         2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	0 38.21
2025       CA       THR A 883       63.327       28.070       25.917       1.0         2026       CB       THR A 883       64.642       27.295       26.300       1.0         2027       OG1       THR A 883       65.753       27.896       25.645       1.0         2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	00 36.09
2026       CB       THR A 883       64.642       27.295       26.300       1.0         2027       OG1       THR A 883       65.753       27.896       25.645       1.0         2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	
2027       OG1       THR A 883       65.753       27.896       25.645       1.0         2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	00 38.89
2028       CG2       THR A 883       64.619       25.861       25.703       1.0         2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	0 45.06
2029       C       THR A 883       62.325       27.441       26.760       1.0         2030       O       THR A 883       62.376       27.619       27.985       1.0         2031       N       LEU A 884       61.468       26.653       26.136       1.0	0 34.98
2030 O THR A 883 62.376 27.619 27.985 1.0 2031 N LEU A 884 61.468 26.653 26.136 1.0	0 37.20
2031 N LEU A 884 61.468 26.653 26.136 1.0	0 38.72
	0 36.33
2032 CA LEU A 884 60.299 26.154 26.735 1.0	00 37.19
	0 37 32
	0.39.51
·	0 40.46
	0 39.93
2037 C LEU A 884 60.536 24.812 27.146 1.0	0 37.90
2038 O LEU A 884 61.439 24.224 26.704 1.0	00 37.67
2039 N ALA A 885 59.766 24.349 28.090 1.0	0 40.12
	0 43.23
2041 CB ALA A 885 59.092 22.789 29.809 1.0	0 40.83
	00 47.82
	0 48.49
	0 53.03
	0 57.55
	00 59.17
2047 CG ASP A 886 59.801 20.080 24.316 1.0	
2048 OD1 ASP A 886 60.703 19.608 23.581 1.0	
	00 73.11
2050 C ASP A 886 57.476 19.113 26.984 1.0 2051 O ASP A 886 57.538 18.664 28.103 1.0	
	00 58.38
	00 62.53
	0 63.20
	0 64.13
	0 64.69
	0 68.23
	0 58.85
	0 63.08
·	0 64.52
	0 65.46
	0 64.98
4121 O2B ATP A1000 38.372 32.868 50.835 1.0	0 64.05
4122 O3B ATP A1000 36.030 33.835 50.075 1.0	00 61.18
	0 64.66
	0 61.28
	0 53.07
	0 55.85
	0 63.69
	0 51.19
4129 C4* ATP A1000 36.702 38.452 48.619 1.0	00 48.45

4130	A	В.	C.	D	Ė.			F		$\mathbf{G}_{i}$		Н	I	J
4131         C1* ATP A1000         37.801         40.399         48.075         1.00         56.06           4133         C2* ATP A1000         37.709         39.459         45.885         1.00         56.21           4135         C3* ATP A1000         37.962         38.092         47.863         1.00         56.21           4135         O3* ATP A1000         37.576         37.178         46.929         1.00         56.21           4136         N9         ATP A1000         38.870         40.760         48.977         1.00         48.97           4138         N7         ATP A1000         40.236         40.937         50.642         1.00         46.56           4138         N7         ATP A1000         40.236         40.937         50.642         1.00         46.56           4140         C6         ATP A1000         41.495         42.912         49.749         1.00         46.85           4141         N6         ATP A1000         49.840         42.616         47.754         1.00         40.18           4142         C4         ATP A1000         49.840         42.616         47.754         1.00         40.18           4145         N1	4130	04*	ATP	A1	1000			36.838	39	.812	48	. 897	1.00	48.02
4133		C1*	ATP	A1	1000									
4134   C3* ATP   A1000   37.962   38.092   47.863   1.00   56.21   4135   O3* ATP   A1000   37.576   37.178   46.929   1.00   56.41   4136   N9   ATP   A1000   39.164   40.209   50.155   1.00   46.56   4138   N7   ATP   A1000   40.236   40.937   50.642   1.00   46.56   4138   N7   ATP   A1000   40.236   40.937   50.642   1.00   46.85   4140   C6   ATP   A1000   41.495   42.912   49.749   1.00   45.05   4141   N6   ATP   A1000   42.491   43.015   50.606   1.00   51.47   4142   C4   ATP   A1000   39.721   41.807   48.758   1.00   44.98   4144   C2   ATP   A1000   39.840   42.616   47.754   1.00   40.18   4144   C2   ATP   A1000   40.730   43.613   47.652   1.00   40.86   4145   N1   ATP   A1000   40.730   43.613   47.652   1.00   40.86   4145   N1   ATP   A1000   41.527   43.736   48.735   1.00   37.92   4177   O   HOH Y 301   34.209   -7.517   100.111   1.00   42.77   4178   O   HOH Y 303   36.987   20.304   84.823   1.00   37.34   4180   O   HOH Y 304   24.445   37.848   61.354   1.00   30.63   4181   O   HOH Y 305   43.619   28.688   43.907   1.00   33.40   4182   O   HOH Y 306   43.619   28.688   43.907   1.00   36.33   4183   O   HOH Y 307   35.150   4.275   99.892   1.00   36.33   4183   O   HOH Y 308   34.643   56.291   1.00   26.79   4186   O   HOH Y 310   37.152   -3.870   86.285   1.00   42.08   4188   O   HOH Y 311   52.468   18.101   40.466   1.00   34.94   4188   O   HOH Y 311   52.468   18.101   40.466   1.00   34.94   4188   O   HOH Y 313   21.983   -0.989   94.287   1.00   35.11   4191   O   HOH Y 315   38.314   43.464   44.478   1.00   39.60   4193   O   HOH Y 315   38.314   43.464   44.478   1.00   38.90   4194   4194   O   HOH Y 315   38.314   43.464   44.478   1.00   38.90   4194   4194   O   HOH Y 315   38.314   43.464   44.478   1.00   38.90   4199   O   HOH Y 316   58.592   59.897   1.00   43.71   4194   O   HOH Y 317   37.565   5.987   104.482   1.00   43.85   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4.900   4	4132	C2*	ATP	A1	L000									
4136   N3	4133	02*	ATP	A1	Ĺ000		•	37709	.39	459	45	.885	1.00	53.71
4136   N9	4134							37.962	38	.092	47	.863		
4137   C8												.929	1.00	56.41
4138 N7 ATP A1000														
4139 C5 ATP A1000														
4140 C6 ATP A1000 41.495 42.912 49.749 1.00 45.05 4141 N6 ATP A1000 42.491 43.015 50.606 1.00 51.47 4142 C4 ATP A1000 39.721 41.807 48.758 1.00 44.98 4143 N3 ATP A1000 40.730 43.613 47.652 1.00 40.86 4145 N1 ATP A1000 41.527 43.736 48.755 1.00 37.92 41.77 O HOH Y 301 34.209 -7.517 100.111 1.00 42.77 4178 O HOH Y 302 52.030 44.683 51.996 1.00 37.34 4179 O HOH Y 304 24.445 37.84 61.354 1.00 30.63 4181 O HOH Y 305 38.693 6.951 84.781 1.00 36.33 4183 O HOH Y 305 38.693 6.951 84.781 1.00 36.33 4183 O HOH Y 306 43.619 28.688 43.907 1.00 36.33 4183 O HOH Y 308 34.293 39.454 56.291 1.00 26.79 4185 O HOH Y 309 26.249 38.679 67.871 1.00 28.41 4186 O HOH Y 310 37.152 -3.870 86.285 1.00 44.21 4186 O HOH Y 311 52.468 18.101 40.466 1.00 34.94 4188 O HOH Y 312 58.705 41.579 36.088 1.00 43.17 4199 O HOH Y 313 21.983 -0.989 94.287 1.00 43.17 4199 O HOH Y 315 38.314 43.464 44.478 1.00 53.90 4192 O HOH Y 316 58.592 38.555 28.508 1.00 43.71 4195 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 4192 O HOH Y 316 58.592 38.555 28.508 1.00 42.08 4193 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 4194 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4195 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4195 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4197 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4195 O HOH Y 312 58.705 5.987 104.482 1.00 39.87 4199 O HOH Y 312 37.565 5.987 104.482 1.00 39.87 4200 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 4199 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 4201 O HOH Y 323 50.221 1.23.667 89.919 1.00 44.69 4202 O HOH Y 324 54.265 41.237														
4141         N6         ATP A1000         42.491         43.015         50.606         1.00         51.47           4142         C4         ATP A1000         39.721         41.807         48.758         1.00         40.98           4144         C2         ATP A1000         40.730         43.613         47.652         1.00         40.86           4145         NI         ATP A1000         41.527         43.736         48.735         1.00         37.92           4177         O         HOH Y 301         34.209         -7.517         100.111         1.00         37.34           4179         O         HOH Y 303         36.987         20.304         84.823         1.00         48.24           4180         O         HOH Y 305         38.693         6.951         84.781         1.00         33.43           4181         O         HOH Y 306         43.619         28.688         43.907         1.00         36.33           4183         O         HOH Y 307         35.150         4.275         99.892         1.00         36.33           4185         O         HOH Y 310         37.152         -3.870         86.285         1.00         42.98														
4142         C4         ATP A1000         39.721         41.807         48.758         1.00         44.98           4143         N3         ATP A1000         39.840         42.616         47.754         1.00         40.86           4145         N1         ATP A1000         40.730         43.613         47.652         1.00         40.86           4177         O         HOH Y 301         34.209         -7.517         100.111         1.00         42.77           4178         O         HOH Y 302         52.030         44.683         51.996         1.00         37.34           4180         O         HOH Y 304         24.445         37.848         61.354         1.00         36.33           4181         O         HOH Y 306         43.619         28.688         43.907         1.00         36.33           4183         O         HOH Y 306         43.619         28.688         43.907         1.00         36.33           4184         O         HOH Y 307         35.150         42.275         99.892         1.00         36.33           4185         O         HOH Y 308         34.293         39.454         56.291         1.00         26.79														
4143         N3         ATP         A1000         39.840         42.616         47.754         1.00         40.18           4144         C2         ATP         A1000         40.730         43.613         47.652         1.00         40.86           4177         O         HOH Y         301         34.209         -7.517         100.111         1.00         42.77           4178         O         HOH Y         302         52.030         44.683         51.996         1.00         37.34           4179         O         HOH Y         304         24.445         37.848         61.354         1.00         38.24           4180         O         HOH Y         306         43.619         28.688         43.907         1.00         36.33           4182         O         HOH Y         306         43.619         28.688         43.907         1.00         36.33           4183         O         HOH Y         306         34.293         39.454         56.291         1.00         36.33           4185         O         HOH Y         308         34.293         39.454         1.00         34.249           4185         O         HOH Y														
4144         C2         ATP A1000         40.730         43.613         47.652         1.00         40.86           4145         N1         ATP A1000         41.527         43.736         48.735         1.00         37.92           4177         O         HOH Y 301         34.209         -7.517         100.111         1.00         42.77           4178         O         HOH Y 302         52.030         44.683         51.996         1.00         37.34           4180         O         HOH Y 304         24.445         37.848         61.354         1.00         36.33           4181         O         HOH Y 305         38.693         6.951         84.781         1.00         36.33           4183         O         HOH Y 306         43.619         28.688         43.907         1.00         36.33           4184         O         HOH Y 308         34.293         39.454         56.291         1.00         26.79           4185         O         HOH Y 310         37.152         -3.870         86.285         1.00         34.29           4187         O         HOH Y 311         52.468         18.101         40.466         1.00         34.29														
4145         N1         ATP A1000         41.527         43.736         48.735         1.00         37.92           4177         O         HOH Y 301         34.209         -7.517         100.111         1.00         42.77           4178         O         HOH Y 302         52.030         44.683         51.996         1.00         37.34           4180         O         HOH Y 304         24.445         37.848         61.354         1.00         30.63           4181         O         HOH Y 305         38.693         6.951         84.781         1.00         33.40           4182         O         HOH Y 306         43.619         28.688         43.907         1.00         36.33           4183         O         HOH Y 308         34.293         39.454         56.291         1.00         26.79           4185         O         HOH Y 310         37.152         -3.870         86.285         1.00         44.21           4187         O         HOH Y 311         37.152         -3.870         86.285         1.00         42.08           4188         O         HOH Y 311         35.468         18.101         40.466         1.00         34.94														
4177 O HOH Y 301 34.209 -7.517 100.111 1.00 42.77 4178 O HOH Y 302 52.030 44.683 51.996 1.00 37.34 4179 O HOH Y 303 36.987 20.304 84.823 1.00 48.24 4180 O HOH Y 305 38.693 6.951 84.781 1.00 30.63 4181 O HOH Y 306 43.619 28.688 43.907 1.00 36.33 4183 O HOH Y 307 35.150 4.275 99.892 1.00 38.81 4184 O HOH Y 308 34.293 39.454 56.291 1.00 26.79 4185 O HOH Y 310 37.152 -3.870 86.285 1.00 44.21 4186 O HOH Y 311 52.468 18.101 40.466 1.00 34.94 4188 O HOH Y 312 58.705 41.579 36.068 1.00 42.08 4189 O HOH Y 313 21.983 -0.989 94.287 1.00 43.17 4190 O HOH Y 315 38.314 43.464 44.478 1.00 53.90 4192 O HOH Y 316 58.592 38.555 28.508 1.00 46.60 4193 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 41.94 O HOH Y 318 51.004 34.504 44.662 31.484 1.00 39.87 41.96 O HOH Y 318 51.004 34.504 42.90 41.99 O HOH Y 320 53.203 28.844 30.705 1.00 39.87 41.97 O HOH Y 320 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 320 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 321 37.565 5.987 104.482 1.00 39.87 41.99 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 41.99 O HOH Y 323 55.121 -23.627 89.91 1.00 43.85 4200 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 41.99 O HOH Y 323 55.121 -23.627 89.91 1.00 43.85 4200 O HOH Y 328 63.877 28.468 30.538 1.00 41.56 4204 O HOH Y 332 66.259 27.09 35.322 1.00 38.57 4201 O HOH Y 332 66.259 27.09 35.322 1.00 38.57 4201 O HOH Y 332 66.259 27.09 35.322 1.00 32.58 4207 O HOH Y 333 66.529 27.09 35.322 1.00 32.58 4200 O HOH Y 332 66.529 27.09 35.322 1.00 32.58 4207 O HOH Y 333 66.529 27.09 35.322 1.00 32.58 4200 O HOH Y 333 66.529 27.09 35.322 1.00 32.58 4200 O HOH Y 333 66.529 27.09 35.322 1.00 38.57 4201 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4209 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4209 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4209 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4209 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4200 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4200 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4200 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 4200 O HOH Y 333 66.529 27.09 35.322 1.00 38.53 42														
4178 O HOH Y 302 52.030 44.683 51.996 1.00 37.34 4179 O HOH Y 303 36.987 20.304 84.823 1.00 48.24 4180 O HOH Y 304 24.445 37.848 61.354 1.00 33.40 4182 O HOH Y 305 38.693 6.951 84.781 1.00 33.40 4182 O HOH Y 307 35.150 4.275 99.892 1.00 38.81 4184 O HOH Y 308 34.293 39.454 56.291 1.00 26.79 4185 O HOH Y 310 37.152 -3.870 86.285 1.00 44.21 4187 O HOH Y 311 52.468 18.101 40.466 1.00 34.94 4188 O HOH Y 312 58.705 41.579 36.068 1.00 42.08 4189 O HOH Y 313 21.983 -0.989 94.287 1.00 42.08 4191 O HOH Y 315 38.314 43.464 44.478 1.00 53.90 41.92 O HOH Y 315 38.314 43.464 44.478 1.00 53.90 41.92 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 41.94 O HOH Y 318 51.00 44.662 31.484 1.00 39.87 41.99 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 38.51 14.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 322 53.203 28.844 30.705 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.90 0 HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.90 0 HOH Y 325 35.203 28.844 30.705 1.00 44.49 41.99 41.80 0 HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.90 0 HOH Y 325 35.90 41.90 37.00 41.90 41.80 41.56 41.90 41.90 41.80 41.50 41.90 41.80 41.50 41.80 41							١.							
4179. O HOH Y 303 36.987 20.304 84.823 1.00 48.24 4180 O HOH Y 304 24.445 37.848 61.354 1.00 30.63 4181 O HOH Y 305 38.693 6.951 84.781 1.00 33.40 4182 O HOH Y 306 43.619 28.688 43.907 1.00 36.33 40 4183 O HOH Y 307 35.150 4.275 99.892 1.00 38.81 4184 O HOH Y 308 34.293 39.454 56.291 1.00 26.79 4185 O HOH Y 310 37.152 -3.870 86.285 1.00 44.21 4187 O HOH Y 311 52.468 18.101 40.466 1.00 34.94 4188 O HOH Y 312 58.705 41.579 36.068 1.00 42.08 4189 O HOH Y 313 21.983 -0.989 94.287 1.00 29.96 41.91 O HOH Y 315 38.314 43.464 44.478 1.00 53.90 41.91 O HOH Y 316 58.592 38.555 28.508 1.00 46.60 41.93 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 41.94 O HOH Y 318 51.004 34.502 28.290 1.00 38.91 41.99 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 320 53.203 28.844 30.705 1.00 38.91 41.99 O HOH Y 322 51.203 28.844 30.705 1.00 38.51 41.99 O HOH Y 322 51.412 38.707 25.922 1.00 42.90 41.99 O HOH Y 322 51.412 38.707 25.922 1.00 42.90 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 322 51.412 38.707 25.922 1.00 42.90 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 323 50.245 44.662 31.484 1.00 39.87 41.99 O HOH Y 321 37.565 5.987 104.482 1.00 42.90 41.99 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 42.90 41.99 O HOH Y 323 50.121 -23.627 89.919 1.00 49.18 42.00 O HOH Y 324 54.265 41.237 40.221 1.00 38.57 4201 O HOH Y 329 62.331 40.960 56.402 1.00 44.49 4202 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 42.06 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 42.06 O HOH Y 330 49.475 13.163 96.500 1.00 41.56 42.00 0 HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 333 54.290 40.356 42.871 1.00 38.53														
4180 O HOH Y 304	4179.	,0	НОН	Y	303									
4182 O HOH Y 306	4180	0	НОН	Y.	304		•			.848	61	.354	1.00	30.63
4183 O HOH Y 307	4181	0	HOH	Y	305									
4184 O HOH Y 308									28	.688	43		1.00	36.33
4185 O HOH Y 309														
4186 O HOH Y 310														
4187 O HOH Y 311 52.468 18.101 40.466 1.00 34.94 4188 O HOH Y 312 58.705 41.579 36.068 1.00 42.08 4189 O HOH Y 313 21.983 -0.989 94.287 1.00 43.17 4190 O HOH Y 314 50.636 25.308 51.909 1.00 29.96 4191 O HOH Y 316 58.592 38.555 28.508 1.00 46.60 4193 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 4194 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4195 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 4196 O HOH Y 320 53.203 28.844 30.705 1.00 35.11 4197 O HOH Y 321 37.565 5.987 104.482 1.00 42.90 4198 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 4199 O HOH Y 323 50.121 -23.627 89.919 1.00 49.18 4200 O HOH Y 324 54.265 41.237 40.221 1.00 38.57 4201 O HOH Y 325 35.932 15.979 69.458 1.00 44.49 4202 O HOH Y 327 40.167 40.451 29.178 1.00 43.85 4203 O HOH Y 328 63.877 28.468 30.538 1.00 44.49 4202 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 4205 O HOH Y 330 49.475 13.163 96.500 1.00 41.09 4206 O HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 333 46.704 12.338 89.706 1.00 32.58 4208 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 333 54.290 40.356 42.871 1.00 33.86 4210 O HOH Y 335 39.125 35.580 29.291 1.00 52.12 4211 O HOH Y 335 30.038 21.951 78.948 1.00 38.53														
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4191       O       HOH Y 315       38.314       43.464       44.478       1.00 53.90         4192       O       HOH Y 316       58.592       38.555       28.508       1.00 46.60         4193       O       HOH Y 317       34.711       38.223       45.323       1.00 38.90         4194       O       HOH Y 319       50.245       44.662       31.484       1.00 39.87         4195       O       HOH Y 320       53.203       28.844       30.705       1.00 35.11         4197       O       HOH Y 321       37.565       5.987       104.482       1.00 42.90         4198       O       HOH Y 322       51.412       38.707       25.922       1.00 46.40         4199       O       HOH Y 323       50.121       -23.627       89.919       1.00 49.18         4200       O       HOH Y 323       50.121       -23.627       89.919       1.00 49.18         4201       O       HOH Y 324       54.265       41.237       40.221       1.00 38.57         4201       O       HOH Y 327       40.167       40.451       29.178       1.00 43.85         4203       O       HOH Y 328       63.877       28.468       30.5														
4192 O HOH Y 316 58.592 38.555 28.508 1.00 46.60 4193 O HOH Y 317 34.711 38.223 45.323 1.00 38.90 4194 O HOH Y 318 51.004 34.502 28.290 1.00 43.71 4195 O HOH Y 319 50.245 44.662 31.484 1.00 39.87 4196 O HOH Y 320 53.203 28.844 30.705 1.00 35.11 4197 O HOH Y 321 37.565 5.987 104.482 1.00 42.90 4198 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 4199 O HOH Y 323 50.121 -23.627 89.919 1.00 49.18 4200 O HOH Y 324 54.265 41.237 40.221 1.00 38.57 4201 O HOH Y 327 40.167 40.451 29.178 1.00 43.85 4203 O HOH Y 328 63.877 28.468 30.538 1.00 41.56 4204 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 4205 O HOH Y 330 49.475 13.163 96.500 1.00 41.09 4206 O HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 332 34.910 37.079 56.822 1.00 29.88 4208 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 334 54.290 40.356 42.871 1.00 33.86 4210 O HOH Y 335 39.125 35.580 29.291 1.00 52.12 4211 O HOH Y 335 30.038 21.951 78.948 1.00 38.53														
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4198 O HOH Y 322 51.412 38.707 25.922 1.00 46.40 4199 O HOH Y 323 50.121 -23.627 89.919 1.00 49.18 4200 O HOH Y 324 54.265 41.237 40.221 1.00 38.57 4201 O HOH Y 325 35.932 15.979 69.458 1.00 44.49 4202 O HOH Y 327 40.167 40.451 29.178 1.00 43.85 4203 O HOH Y 328 63.877 28.468 30.538 1.00 41.56 4204 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 4205 O HOH Y 330 49.475 13.163 96.500 1.00 41.09 4206 O HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 332 34.910 37.079 56.822 1.00 29.88 4208 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 334 54.290 40.356 42.871 1.00 33.86 4210 O HOH Y 335 39.125 35.580 29.291 1.00 52.12 4211 O HOH Y 336 30.038 21.951 78.948 1.00 38.53	4196	0	НОН	Y	320	•		53.203	28	.844	30	.705		
4199 O HOH Y 323 50.121 -23.627 89.919 1.00 49.18 4200 O HOH Y 324 54.265 41.237 40.221 1.00 38.57 4201 O HOH Y 325 35.932 15.979 69.458 1.00 44.49 4202 O HOH Y 327 40.167 40.451 29.178 1.00 43.85 4203 O HOH Y 328 63.877 28.468 30.538 1.00 41.56 4204 O HOH Y 329 62.331 40.960 56.402 1.00 46.79 4205 O HOH Y 330 49.475 13.163 96.500 1.00 41.09 4206 O HOH Y 331 46.704 12.338 89.706 1.00 32.58 4207 O HOH Y 332 34.910 37.079 56.822 1.00 29.88 4208 O HOH Y 333 66.529 22.709 35.322 1.00 38.73 4209 O HOH Y 334 54.290 40.356 42.871 1.00 33.86 4210 O HOH Y 335 39.125 35.580 29.291 1.00 52.12 4211 O HOH Y 336 30.038 21.951 78.948 1.00 38.53	4197	0	HOH	Y	321			37.565	5	987	104	.482	1.00	42.90
4200       O       HOH Y 324       54.265       41.237       40.221       1.00 38.57         4201       O       HOH Y 325       35.932       15.979       69.458       1.00 44.49         4202       O       HOH Y 327       40.167       40.451       29.178       1.00 43.85         4203       O       HOH Y 328       63.877       28.468       30.538       1.00 41.56         4204       O       HOH Y 329       62.331       40.960       56.402       1.00 46.79         4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4201       O       HOH Y 325       35.932       15.979       69.458       1.00 44.49         4202       O       HOH Y 327       40.167       40.451       29.178       1.00 43.85         4203       O       HOH Y 328       63.877       28.468       30.538       1.00 41.56         4204       O       HOH Y 329       62.331       40.960       56.402       1.00 46.79         4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 52.12         4210       O       HOH Y 336       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53		0												
4202       O       HOH Y 327       40.167       40.451       29.178       1.00 43.85         4203       O       HOH Y 328       63.877       28.468       30.538       1.00 41.56         4204       O       HOH Y 329       62.331       40.960       56.402       1.00 46.79         4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4203       O       HOH Y 328       63.877       28.468       30.538       1.00 41.56         4204       O       HOH Y 329       62.331       40.960       56.402       1.00 46.79         4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4204       O       HOH Y 329       62.331       40.960       56.402       1.00 46.79         4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4205       O       HOH Y 330       49.475       13.163       96.500       1.00 41.09         4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4206       O       HOH Y 331       46.704       12.338       89.706       1.00 32.58         4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53							8							
4207       O       HOH Y 332       34.910       37.079       56.822       1.00 29.88         4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53									10	335 τος				
4208       O       HOH Y 333       66.529       22.709       35.322       1.00 38.73         4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
4209       O       HOH Y 334       54.290       40.356       42.871       1.00 33.86         4210       O       HOH Y 335       39.125       35.580       29.291       1.00 52.12         4211       O       HOH Y 336       30.038       21.951       78.948       1.00 38.53														
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Α	В	C	D	E		F	G	H	Ι	J
4213	0			338		27.063		81.741		49.23
4214	0			339	-	43.495		101.845	1.00	29.87
4215	0			340		24.042		87.471		41.90
4216	O.	HOH	Y	341		28;532	21.817	105.465	1.00	51.38
4217	0	HOH	Y	342		34.250	-2.816	87.557	1.00	40.16
4218	0	HOH	Υ	343		61,321	37.753	51,409	1.00	42.73
4219	O	HOH	Y	344		36.839	-8.065	88.494	1.00	47.43
4220	0	HOH	Y	345	5,	36.931	51.353	67.108	1.00	43.87
4221	0	HOH	À	346		32.133	3.426	74.670	1.00	41.40
4222	0	НОН	Y	347		35.239	-3.830	103.044	1.00	32.29
4223	0	HOH	Y	348		29.414	4.943	100.046	1.00	41.59
4224	O	HOH	Y	349		24.239	20.789	98.495	1.00	55.55
4225	0	HOH	Y	350		56.249	24.229	27.459	1.00	35.32
4226.	0	HOH	Y	351		42.039	36.733	27.828	1.00	31.77
4227	0	НОН	Y	352		49.598	14.602	89.944		39,22
4228	0	HOH	Y	353		53.086	45.810	55.315		46.66
4229	0	HOH	Y	354		56.134	28,666	55.481	1.00	37.89
4230	0	HOH	Y	355		63.607			1.00	45.92
4231	Ó	HOH	Y	356		47.007	-0.656		1.00	39.67
4232	0	НОН	Y	357		56.849	42.289	30.051	1.00	43.93
4233	. O	HOH	$\mathbf{Y}$	358		50.297	45.047	58.166		37.20
4234	O.	HOH	Y	359		28.541	41.183	57.319	1.00	46.64
4235	0	HOH	Y	360		61.669	23.736	51.056		46.15
4236	0	НОН	Y	361		46.431	16.691	103.110		35.98
4237	Ο	НОН	Y	362	,	43:512	8.970	105.775	1.00	
4238	0	HOH	Y	363		62.088	25.972	23.786		38.78
4239	Ö	НОН	Y	364		64.287	31.187	20.702	1.00	
4240	0	НОН	Y	365		34.618	30.621	63.970		
4241	0	НОН				25.281	41.511	59.290		44.80
4242	. 0	НОН	Y	367		45.275	20.695	97.308		46.67

## FIGURE 3B

#### **LEGEND**

Column headings from left to right are (A) 'Atom Number', (B) 'Atom Type', (C) 'Amino Acid', (D) 'Chain Identifier', (E) 'Amino Acid Number', (F) 'X Coordinate', (G) 'Y Coordinate', (H) 'Z Coordinate', (I) 'Occupancy' (OCC) and (J) 'B factor'.

	Α	В	C	D	E		F	G	Н	I	J
	2057	N	ALA	В	602		61.588	-1.705	97.096	1.00	75.62
	2058	CA			602		61.031	-2.970	96.546	1.00	76.68
	2059	CB.			602		61.665	-3.292	95.199	1.00	76.47
	2060	C	ALA				61.337	-4.080	97.519	1.00	77.44
	2061	0	ALA		602		61.332	-5.311	97.156		75.75
	2062	N	LYS		603		61.635	-3.605	98.744	1.00	77.75
	2063	CA	LYS		603		62.173	-4.417	99.861		77.56
2	2064	СВ			603		63.425		100.411		78.96
	2065	CG	LYS		603		63.212	-2.282		1.00	78.12
	2066	CD.			603		62.779	-2.211	102.422		78.99
	2067	CE	LYS		603		63.952		103.426		79.93
	2068	NZ	LYS		603		64.536		103.573		79.82
	2069	C	LYS		603		61.103	-4.418			76.81
	2070	0	LYS				61.315		102.072		75.16
	2071	N	PHE		604		59.938	-3.975			76.03
	2072	CA			604		58.711		101.207		74.92
٠.	2073	CB			604		58.102		100.991	1.00	76.05
	2074	CG:			604		58.700	-1.538		1.00	78.39
	2075				604		58.564		103.231		79.39
	2076	CE1			604		59.115		104.059		84.10
	2077	CZ			604		59.854		103.511		81.74
	2078	CE2			604		60.017		102.144		82.47
	2079	CD2	PHE		604		59.448		101.312	1.00	
	2080		PHE		604		57.783		100.707		73.54
	2081	0	PHE		604		56.553	-4.941	100.826		73.46
	2082	N	THR		605		58.368	-6.069	100.190		71.71
	-	. CA	THR		605		57.496	-7.068	99.640		68.96
	2084	СВ	THR		605		57.540	-6.922	98.163		68.75
	2085		THR				57.203	-8.191	97.632		71.34
	2086	CG2	THR				58.991	-6.774	97.722	1.00	
	2087	С			605		57.874		99.969		65.74
	2088	0 .	THR.				59.000	-8.868	99.864		66.65
	2089	N	THR		606		56.897		100.339		61.47
	2090	CA	THR		606			-10.702			56.89
	2091	CB	THR		606			-11.150	101.234	1.00	
	2092	OG1	THR		606			-10.407	102.470		53.91
	2093	CG2	THR		606			-12:662			56.07
	2094	С	THR		606			-11.402	99.182		55.32
	2095	0	THR		606	-		-11.139	98.285		55.18
	2096	N	GĻU					-12.330	99.008	1.00	
	2097	CA	GLU		607		58.113	-13.077	97.771		48.83
	2098	CB	GLU		607		59.550	-13.585	97.546	1.00	50.19
	2099	CG	GLU		607			-14.650	96.488	1.00	49.52
	2100	CD	GLU		607			-14.069	95.132	1.00	53.13

A	В	C ,	D	E	•	F	G	Н	, I	J	
2101	OE1	GLU	В	607		59.999	-12.782	95.021	1.00	47.52	
2102	OE2	GLU	В	607		59.708	-14.931	94.179		56.60	
2103	C.	GLU	В	607			-14.194	97.907		47.66	
2104	0			607.			-14.795			45.85	
2105	N	ILE					-14.548	96.865		47.65	
2106	CA	ILE					-15.608	97.148		47.68	
2107	СВ	ILE					-15.132	96.825		48.07	
2108	CG1	ILE			٠.		-14.230	97.980		49.31	
2109	CD1	ILE					-13.233			50.75	
2110	CG2	ĮĽĒ					-16.282	96.537		42.03	
2111	C	ILE					-16.879			48.49	
2112	0	IĻE					-16.848	95.356		47.91	
2113	N	HIS					;				
2113	CA	HIS					-18.022	97.025		49.63	
							-19.227	96.270		51.07	
2115				609			-20.399	97.228		52.62	
2116	CG	HIS					-21.599	96.510		58.19	. '
2117		HIS					-22.693	96.162		61.53	
2118		HIS					-23.592	95.553		64.63	
2119		HIS					-23.110	95.462		68.36	٠
2120	CD2	HIS					-21.866	96.060		67.33	
2121	C	HIS					-19.610	95.259		49.78	
2122	0	HIS					-19.793	95.618		51.06	
2123	N			610			-19.951	94.060	1.00	49.31	
2124	CA	PRO				54.043	-20.289	92.937	1.00	48.79	
2125	CB	PRO	В	610		54.978	-20.868	91.902	1.00	47.24	
2126	ĊG	PRO	В	610		56.241	-20.130	92.245	1.00	45.60	
2127	CD	PRO				56.362	-20.127	93.691	1.00	48.27	
2128	C .	PRO	В	610		52.968	-21.233	93.256	1.00	47.95	
2129	0	PRO	В	610		51.831	-21.007	92.869	1.00	49.54	
2130	N	SER	В	611		53.307	-22.313	93,907	1.00	48.59	
2131 -	CA	SER	В	611		52.298	-23.175	94.438	1.00	48.44	
2132	CB	SER	В	611	•	52.899	-24.417	95.162	1.00	51.57	
2133	OG	SER	₿	611		53.726	-24.112	96.289	1.00	52.63	٠
2134	С	SER	В	611		51.472	-22.460	95.404		47.60	
2135	0	SER	В	611			-22.969	95.803		48.97	
2136	N	CYS					-21.290	95.872		46.75	
2137	CA	CYS					-20.743	96.749		48.06	
2138	СВ	CYS					-19.740	97.818		47.86	
2139	SG	CYS				•	-20.799	98.813		51.39	
	C	CYS					-20.195	96.060		45.77	
2141	0	CYS					-19.972	96.685		45.07	
2142	N	VAL		-			-20.011	94.767		44.88	
2143	CA	VAL					-19.212	94.037		44.04	
2144	СВ	VAL					-18.166	93.300		45.69	
2145		VAL					-17.575	92.151		41.35	
2146		VAL					-17.191	94.320		41.89	
2147	Ç	VAL					-19.928	93.015		42.53	
2148		VAL					-19.928 $-20.712$	93.015		42.53	
2149	N	THR					-20.712 $-19.543$				
2149								92.870		40.71	
	CA	THR					-20.229·			41.54	
2151		THR					-21.096	92.969		40.51	
2152	OG1	THR	B	014		45.21/	-22.498	92.671	Ť.00	48.61	

I	7	В	. С	D	<b>E</b>	F	G G	Н	1	J
2	2153	CG2	THR	В	614	43.817	-20.769	93.108	1.00	44.50
	2154	С	THR		614		-19.149	91.179	1.00	41.38
2	2155	Ö	THR	В	614		-18.144	91.814	1.00	
	2156	N ,	ARG		615		-19.369	89.853	1.00	38.93
2	2157	CA	ARG	В	615		-18.494	88.956		36.43
2	2158	CB	ARG	В	615	44.933	-18.179	87.724	1.00	36.87
1	159	ĊG	ARG	В	615	46.293	-17.663	87.956	1.00	35.71
4	2160	CD.	ARG		615	47.125	-17.512	86.727	1.00	38.53
2	2161	NE	ARG	В	615	47.289	-18.840	86.152	1.00	38.81
. 2	2162	CZ	ARG		61,5	47.844	-19.126	84.944	100	38.46
	2163	NH1	ARG				-20.387			31.60
	2164	NH2	ARG				-18.181			33.51
	2165				615		-19.117	88.530		37,76
	2166	0			615		-20.263	88.159	1.00	39.62
	2167	N ·	GLN		616		-18.383	88.576		38.21
	2168	CA	GLN		616		-18.954	88.262		37.39
	2169	CB	ĢLŅ		616		-18.618	89.472		39.47
	2170	CG			616		-19.563	90.688		43.49
	2171	CD					-18.814		1.00	50.53
	2172	OE1			616		-17.701		.1.00	48.97
	2173	NE2	GLN		616		-19.425	92.903	1.00	57.89
	2174	C	GLN		616		-18.178	87.047	1.00	
	2175	0			616		-18.598			32.04
	2176		LYS				-16.990			35.94
	2177	CA			617		-16.287	85.725		38.36
	2178	CB			617		-16.007			39.22
	2179	CG			617		-14.698	86.233		42.77
	2180	CD			617.		-14.825	86.696	1.00	
	2181 2182 :	CE NZ	ĻYS		617 617		-13.466 -12.927	87.025 88.489	1.00	
	2183	C	LYS		617		-12.927 -15.100	85.316	1.00	63.21 40.50
	2184	0 .			617		-14.556	86.140	1.00	
	2185	N			618	40.594		84.039	1.00	40.89
		. CA	VAL		618		-13.431	83.793	1.00	40.18
	2187	ÇB	VAL		618		-13.349	82.385		40.55
	2188	CG1				42.262		82.120	1.00	44.64
	2189	CG2	VAL				-14.535		1.00	41.80
	2190	C.			618		-12.346	83.975		38.00
	2191	0			618		-12.485	83.503		39.02
	2192	N			619		-11.229	84.559		38.05
:	2193	CA	•		619		-10.134	84.823		39.66
	2194	CB			619		-9.832	86.309		40.93
	2195	CG1			619		-9.612	86.979		38.06
:	2196	CD1	ILE	В	619	40.786	-9.252	88.632	1.00	36.23
2	2197	CG2	ILE	₿	619	38.943	-11.004	87.102	1.00	40.94
	2198	C			619	40.206	-8.870	84.202	1.00	43.93
:	2199	0	ILE	В	619	39.560		84.237		42.87
	2200	N			620	41.393	-8.925	83.623		45.17
	2201	CA			620	41.915	-7.673	83.104	-	47.33
	2202	C			620	43.224	-8.092	82.429		50.85
	2203	0			620	43.871	-9.236	82.620		51.47
4	2204	N	ALĀ	В	621	43.595	-7.160	81.572	1.00	51.35

7\	В	C D	· 12		· F	G	TT	I	т
A	ъ.	Ċ Ď	. E ·		r	G	H	Τ	J
			_ X						
2205	CA	ALA B			44.760	-7.184	80.745		53.88
2206	CB	ALA B	621		44.426	-7.688	79.316	1.00	54.10
2207	C	ALA B	621		45.299	-5.791	80.674	1.00	55.13
2208	0	ALA B	621		44.828	-4.959	79.886	1.00	57.99
2209	N	GLY B	622		46.264	-5.589	81,554	1.00	
2210	CA	GLY B	622		47.168	-4.483	81.562	1.00	
2211	C	GLY B	622						
					48.209	-4.562	80.477	1.00	
2212	O.	GLY B			48.272	-5.501	79.641		59.00
2213	N	GLU B			49.057	-3.532	80.510	1.00	59.69
2214	CA	GLU B	623		50.174	-3.401	79.539	1.00	60.06
2215	CB	GLU B	623		50.715	-1.953	79,435	1.00	61.65
2216	CG	GLU B	623		51.576	-1.387	80.577	1.00	66.11
2217	CD	GLU B	623		52.456	-0.197	80.080	1.00	77.25
2218	OE1	GLU B	623		52.149	0.983	80.464		79.02
2219			623		53.437	-0.432	79.272		79.70
2220	С		623		51.309	-4.335	79.842		58.25
2221	0	GLU B	623		52.235	-4.436			60.16
2222	N		624		51.275	-5.016	80.970	1.00	54.74
2223	CA	PHE B	624	•	52.410	-5.847	81,.262	1.00	51.99
2224	CB	PHE B	624		52.789	-5.730	82.754	1.00	51.88
2225	CG	PHE B	624		53.391	-4.399	83.133		54.02
2226		PHE B			54.733	-4.102	82.907		55.50
2227		PHE B			55.256		83.249	1.00	56.20
2228	CZ	PHE B	624				83.816		
					54.422	-1.780		1.00	56.45
2229	CE2		624		53.062	-2.046	84.037	1.00	52.77
2230	CD2		624		52.556	÷3.379	83.686	1.00	56.55
2231	C		624		51.975	-7.269	80.865	1.00	50.15
2232 -	0	PHE. B	624		52.725	-8.128	80.468	1.00	50.83
2233	N.	ĢLY B	625		50.672	-7.410	80.863	1.00	47.48
2234	CA	GLY B	625		50.054	-8.656	80.601	1.00	45.33
2235	С	GLY B	625	٠.	48.716	-8.751	81.302	1.00	
2236	0		625		48.093	-7.765	81.722	1.00	43.69
2237	N	GLU B	-			-10.005	81.484		44.33
2238	. CA	GLU B				-10.291	82.001	1.00	
									43.81
2239	CB	GLU B				-11.745	81,695		44.48
2240	CG	·GLU, B				-12.117	80.292	1.00	51.57
2241	CD		626			-12.312.	79.404	1.00	61.26
2242	OE1	GLU B	626		45.469	-11.265	78.940	1.00	69.20
2243	OE2	GLU B	626		45.429	-13.467	79.241	1.00	64.36
2244	C	GLU B	626	•	46.908	-10.078	83.494	1.00	40.95
2245	Ο.	GLU B	626		47.921	-10.120	84.202		41.04
2246	N	VAL B	,			-9.798	83.869		
2247	CA.	VAL B			45.186		85.213		35.92
2248	СВ	VAL B		•		-8.283			34.09
							85.610		
2249		VAL B				-8.208	87.155		27.95
2250		VAL B				-7.191	85.273		36.93
2251	С	VAL B				-10.796	85.471		35.59
2252	.0	VAL B			43.112	-10.850	84.773	1.00	37.84
2253	N	TYR B	628		44.407	-11.644	86.441	1.00	31.13
2254	CA	TYR B				-12.753	86.884		31.63
2255	СB	TYR B				-14.055	87.021	•	30.96
2256	CG	TYR B				-14.532	85.752		30.76
			020	*	-3.230	4	55.752	1.00	50.70

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Docket No. SYR-EPHA2-5001-C1
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A	Ŗ	CI	E		<b>F</b>	Ģ	Н	I	J
2257	CD1	TYR E	8 628		46 561	-14.097	85.486	1 00	28.48
2258	CE1	TYR E				-14.488		1.00	
2259	CZ	TYR E				-15.369	83.475	1.00	38.38
2260	OH	TYR E				-15.748	82.353		43.82
2261	CE2	TYR E				-15.760	83.588		33.96
2262	CD2	TYR E				-15.354	84.802		34.73
2263	Ç	TYR E				-12.555	88.305	1.00	33.38
2264	0	TYR E				-11.894	89.182	1.00	33.26
2265	N	LYS E				-13.240	88.574	1.00	
2266	CA.	LYS E				-13.240			36.43
2267	CB	LYS E				-13.117	89.816		34.99
2268		LYS				-14.031	90.690		42.88
2269	CD	LYS E				-13.567	92.036		47.09
2270	CE	LYS E				-14.774	92.959	1.00	
2271	NZ	LYS E				-15.510	93.282		38.62
2272	С	LYS E				-14.646	90.264		38.05
2273	0	LYS E				-15.573	89.484		34.96
2274	N	GLY E				-14.773	91.520		39.79
2275	CA	GLY E				-16.017			40.62
2276	C	GLY E				-16.168			41.62
2277	0	GLY E				-15.455	94.134	1.00	
2278	N	MET E				-17.122	94.046	1.00	
2279	CA		631			-17.424	95.471	1.00	40.08
2280	CB	MET E		-		-18.782	95.697	1.00	39.40
2281	CG	MET E				-18.772	95.422	1.00	36.74
2282	SD	MET E				-17.481	96.157		46.24
2283	CE	MET E				-18.103	98.007	1.00	
2284	C	MET E				-17.573	95.862	1.00	
2285	Ō	MET E				-18.078	95.080	1.00	
2286	N	LEU E		•		-17.167	97.064	1.00	
2287	CA	LEU E		٠.		-17.311	97.497	1.00	43.33
2288	CB	LEU E	-			-15.967	97.744	1.00	43.33
2289	ÇG	LEU E				-15.982	98.533	1.00	39.74
2290	CD1	LEU E				-16.156	97.728	1.00	38.69
2291	CD2	LEU E				-14.657	99.169	1.00	41.35
2292	C	LEU E				-18.052	98.813		47.21
2293	0	LEU E	632			-17.737	99.630	1.00	46.45
2294	N	ALA E	633			-19.043	98.998	1.00	51.87
2295	CA	ALA E	633		47.226	-19.803	100.227		56.44
2296	CB	ALA E				-21.328			56.80
2297	C	ALA E	633			-19.045		1.00	
2298	0	ALA E	633			-18.761			56.04
2299	N.	THR E	634			-18.599			61.86
2300	CA	THR E	634			-17.932			65.92
2301	CB	THR E	634			-16.513			67.32
2302	QG1	THR E	634			-16.420			67.54
2303	CG2	THR E	634			-15.309		1.00	69.80
2304	С	THR E	634		47.620	-18.840	104.576	1.00	67.85
2305	0	THR E			48.260	-19.118	105.602	1.00	70.48
2306	N	LYS E				-20.684		1.00	
2307	CA	LYS E				-20.394		1.00	66.79
2308	CB	LYS E	639		42.454	-19.415	105.557	1.00	67.15

Α	В	.C	D	$\mathbf{E}_{\alpha}$		F	G	•	Н	Ĭ	J
2309	CG	LYS	В	639		42.933	-18.0	18 10	06.081	1.00	68.24
2310	CD			639	٠.	41.772				1.00	74.03
2311	CE.			639		41.759				1.00	79.83
2312	NZ			639		41.868					77.67
2313	C			639		44.048				1.00	
2314	0			639		45.070			3.104		65.73
2315	N			640		43.302	•				60.87
2316				640		43.491					57.13
2317				640		42.992					58.15
2318	CĢ			640		41.495					60.04
2319	CD.			640		41.096			99.392		64.28
2320		GLU				39.891			99.310		63.14
2321	OE2					41.957			98.604		
2322	.C			640		42.667				1.00	
2323	0			640		41.528					53.30
2324	N	VAL				43.261			00.573	1.00	49.18
2325	CA			641		42.508					48.68
2326	СВ	VAL				42.994					49.50
2327	CG1	VAL				44.390					48.06
2328		VAL			•	42.291					57.76
2329	С	VAL				42.394	-15.1	18	8.866		45.71
2330	0			641		43.174			97.986		46.28
2331	N	PRO	В	642		41.310			98.553		43.57
2332	CA	PRO	В	642		41.105			7.166		40.99
2333	CB	PRO	В	642		39.607	-13.6		97.182		40.42
2334	CG	PRO	В	642		39.389	-13,1	54 9	98.678	1.00	41.18
2335	CD	PRO	B	642		40.063	-14.3	58 9	99.351		42.33
2336	C	PRO				42.062	-12.8	98	96.773	1.00	38.73
2337	0			642		42.234	-12.0		97.550	1.00	38.87
2338	N	VAL	В	643		42.659			5.580		36.26
2339	CA	-		643		43.631			95.253		35.27
2340	CB			643		44.920			95.411		35.78
2341		VAL				45.284			96.921		33.58
2342	CG2	VAL		•		44.782			94.815		34.92
2343	С	VAL				43.508		,	3.775		36.64
2344	0	VAL				43.123			92.922		38.44
2345	N	ALA				43.893			3.428		33.63
2346	CA			644		44.132			1.975		33.25
2347	CB			644	•	43.934			1.626		29.05
2348		ALA				45.585			91.637		33.38
2349	0			644		46.510			92.483		34.78
2350	N			645		45.812			90.423		34.84
2351	CA			645		47.140			39.994		34.70
2352	CŖ			645		47.222			39.772		36.71
2353	CG1			645		46.794			91.011		36.62
2354 2355	CD1 CG2			645		46.106			90.739		35.69
2356	CG2 C			645 645	•	48.668 47.509			39.414		36.76
2357	Ö.			645		46.933			38.716		35.66
2357	N			646		48.576			37.655 38.775		33.28
2359	CA	LYS				49.100			38.775 37.627		37.62 39.51
2360	CB	LYS				49.100					40.50
4,00	رن	113	ני	υ±ό		±2.334	- / , /	۰ ,	)	. 1.00	40.50

	Ά	В	С	D	Ė			F	G	Н	I.	J
	2361	CG	LYS	В	646			48.112	-6.902	88.103	1.00	43.92
	2362	CD	LYS					48.459		88.516		51.47
	2363	CE	LYS	В	646			48.982		87.354		57.30
	2364	NZ	LYS	В	646			49.752	-3.453	87.904		62.15
	2365	C			646			50.303		87.182		42.10
	2366	Ō	LYS						-10.125			43.88
		·N	THR						-10.323	85.945		45.48
	2368	CA	THR						-10.990			46.92
	2369	СВ	THR						-12.184	84.508		45.72
	2370	OG1	THR						-11.807			49.53
	2371	CG2	THR						-13.128		1.00	
	2372	C	THR		647				-10.155	84.313	1.00	
	2373	0	THR		647			51.699	•	83.797	1.00	
	2374	Ņ	LEU						-10.596	84.070	*	48.96
	2375	CA.	LEU					54.249	-9.855	83.227	1.00	50.53
	2376	CB			648			55.590		83.968		49.36
	2377	CG	-		648			56.542		83.642	1.00	
	2378	CD1	LEU					58.040		83.579	1.00	
	2379	CD2	LEU					56.116		82.381	1.00	
	2380	C			648				-10.784	82.043		51.82
	2381	0	LEU						-11.893		1.00	
	2382	N			649				-10.417	80.869		54.10
	2383	CA	ALA						-11.362	79.756		56.21
	2384	CB	ALA						-10.894	78.487	1.00	
	2385	Ç	ALA				,		-11.687	79.395		56.49
	2386	0	ALA						-10.974	79.740		56.04
	2387	N			650				-12.811	78.718		56.23
	2388 -	CA	ALA						-13.049			56.52
	2389	СВ	ALA						-14.433	77.525	1.00	
	2390	С	ALA						-11.965	77.057	1.00	
	2391	0	ALA			٠,			-11.510	76.413	1.00	
	2392	N	GLY						-11.595	76.834	1.00	55.88
	2393	ĊA	GLY						-10.553	75.873		57.02
	2394	C	GLY	В	651			59.312		76.746	1.00	
	2395	0	GLY	₿	651			59.712	-8.311	76.347	1.00	
	2396	N	TYR	В	652			59.366	-9.788	78.022	1.00	
	2397	CA	TYR	В	652			59.573	-8.682	78.940	1.00	57.59
	2398	CB	TYR	В	652			59.435	-9.019	80.478	1.00	54.77
	2399	CG	TYR	В	652			60.213	-10.134	81.202	1.00	56.20
	2400	CD1	$\mathtt{TYR}$	В	652			59.693	-11.415	81.380		57.11
	2401	CE1	TYR	В	652			60.384	-12.382	82.148		54.44
	2402	CZ	TYR	В	652			61.565	-12.044	82.766	1.00	59.06
	2403	OH	TYR	В	652			62.237	-13.076	83.485	1.00	65.51
	2404	CE2	$\mathbf{T}\mathbf{Y}\mathbf{R}$	В	652			62.093	-10.787	82.618	1.00	57.44
	2405	CD2	TYR	В	652			61.426	-9.857	81.867	1.00	54.60
•	2406	C ·	TYR					60.713	-7.765	78.455		57.13
	2407	0	TŸR					61.890	-8.195	78.247		56.27
	2408	N	THR	В	653			60.253	-6.536	78.165		59.21
	2409	CA	THR					61.056	-5.309	77.938	1.00	61.19
	2410		THR					60.410	-4.127	78.740	1.00	62.43.
	2411	OG1	THR					58.961	-3.939	78.394		63.91
	2412	CG2	THR	В	653			61.197	-2.732	78.552	1.00	59.49

A	В	С	D	E		F	G ·	Н	1	J
2413	С	THR	В	653		62.510	-5.458	78.383	1.00	62.37
2414	0	THR	В	653		63.408	-5.096	77.655		63.93
2415	Ŋ	ALA	В	654		62.748	-6.047	79.537	1.00	65.18
2416	CA	ALA	В	654		64.118	-6.339	80.065	1.00	66.92
2417	ÇВ	AĻA	В	654		65.181	-6.632	78.995	1.00	
2418.	C	ALA	В	654		64.482	-5.184	80.915	1.00	67.15
2419	0	ALA	В	654		65.452	-5.259	81.675	1.00	68.11
2420	N	LYS	В	655		63.683	-4.123	80.723	1.00	65.70
2421	. CA			655		63.542	-3.126	81.715		64.02
2422	CB			655		64.033	-1.755	81.277		64.04
2423	CG.			655		62.873	-0.760	81.003		62.73
2424	CD			655		62.975		81.731	1.00	
, 2425	CE			655	• ,	61.719	1.600	81.419	1.00	
2426		LYS				61.431	3.073	82.018		71.15
	, C			655		62.035	-3.062	81.945		64.99
2428	0	LYS		655	*	61.594	-2.189	82.707		65.05
2429	N			656		61.184		81.273		65.62
2430	CA			656		59.741	-3.683	81.659 80.698	1.00	63.59
2431 2432	CB C			656 656		58.729 59.776	-4.389 -4.378			63.21 63.77
2433	0			656		59.045	-4.059	83.953		65.32
2434	N			657		60.688	-5.343	83.933		62.81
2435	CA			657	:	60.896	-5.994	84.326		61.44
2436	CB			657		62.153	-6.830	84.259	1.00	
2437				657.		60.921	-5.063	85.578		61.39
2438	0			657		60.315	-5.374	86.615	1.00	60.78
2439	N			658		61.571	-3.906	85.517		60.99
2440	CA			.658		61.752	-3.219	86.804	1.00	60.46
2441	CB	VAL	В	658		62.852	-2.176	86.857	1.00	60.81
2442		VAL				64.200	-2.834	86.665	1.00	62.51
2443		VAL				62.560	-1.118	85.803	1.00	62.91
2444	. C	VAL		658		60.583	-2.403	87.005	1.00	59.81
2445	0 .			658		60.146	-2.289	88.146	1.00	58.61
2446	N			659		60.080	-1.838	85.890	1.00	58.44
2447	CA			659		58.911	-0.960			57.85
2448				659		58.611	-0.274	84.666		58.73
2449	CG -			659		59.082	1.150	84.657		62.54
2450	_	ASP				59.986	1.499	83.839		65.80
2451		ASP				58.612	1.992	85.486		70.42
2452 2453	С 0			659 659		57.696 56.889	-1.717 -1.170	86.556 87.285		55.40 54.47
2453	N			660		57.645	-2.993	86.222		53.30
2455	CA			660		56.616	-3.893			51.47
2456	CB			660		.56.687	-5.210			50.03
2457	CG			660		55.699	-6.247			45.78
2458		PHE			Ť	54.375	-6.154	85.964		42.78
2459		PHE				53.495	-7.117	86.364		29.42
2460	CZ			660		53.919	-8.122	87.106		35.70
2461	CE2			660		55.234	-8.230	87.541		34.32
2462	CD2			660		56.092	-7.299	87.134		41.88
2463	С			660	•	56.809	-4.159		1.00	51.98
2464	0	PHE	В	660		55.970	-3.826	88.979	1.00	53.32

	A ,	В	С	D	E		F	G	H :	I.	J
	2465	N	LEU	В	661		57.867	-4.818	88.587	1.00	51.16
	2466	CA	LEU			-	58.052	-4.986	90.025	1.00	49.90
	2467	CB	LEU				59.410	-5.608	90.304	1.00	50.17
	2468	CG	LEU		661		59.401	-7.101	89.967	1.00	49.47
	2469	CD1	LEU	В	661		60.075	<del>-7.725</del>	91.087	1.00	49.31
	2470	CD2	LEU		661		58.040	-7.634	90.013	1.00	47.87
	2471	C ·	LEU		661		58.084	-3.654	90.722	1.00	48.85
	2472	Ō	LEU		661		57,712	-3.584	91.846	1.00	52.10
	2473	N ·	GLY		662		58,555	-2.595	90.098	1.00	46.78
	2474	CA	GLY				58.683	-1.340	90.803	1.00	44.02
	2475	C	GLY				57.361	-0.929	91.466		45.84
	2476	0	ĠĻŸ	-			57.336	-0.347	92,600	1.00	
	2477	N	GLŲ				56.258	-1.222		1.00	44.38
	2478	CA	GLU	-		٠.	54.970	-0.787	91.194	1.00	
	2479	CB	GLU		663	₹.	53.843	-1.079		1.00	43.42
	2480	CG	GLU				52.554	-1.313	91.003	1.00	48.94
	2481	CD.	GLU				51.261	-1.147	90.298		55.99
	2482	OE1	GLU		663		50.348	-0.344	90.786		56.46
	2483	OE2	GLU				51.131	-1.926	89.326	1.00	62.78
	2484	C	GLU		663		54.735	-1.449	92.490		40.69
	2485	0	GLU		663		54.243	-0.836	93.429	1.00	39.77
	2486	N			664		55.147	-2.699	92.549	1.00	41.23
	2487	CA	ALA				54.964	-3.521	93.768		42.51
	2488	CB	ALA				55.361	-4.924	93.525	1.00	
	2489	C	ALA				55.811	-2.917	94.871	1.00	42.68
	2490	0	ALA				55.438	-2.924	96.042	1.00	43.36
	2491	N	GLY				56.960	-2.374	94.476	1.00	43.87
	2492	CA	GLY		665		57.931	-1.819	95,439	1.00	43.94
	2493	C	GLY			•	57.330	-0.667	96.169	1.00	43.52
•	2494	0	GLY				57.462	-0.519	97.381	1.00	
	2495	N	ILE		666		56.629	0.158	95.425	1.00	42.33
	2496	CA.	ILE		666		55.965	1.280	96.055	1.00	42.70
		CB	ILE.				55.513	2.167	94.932	1.00	43.27
	2498	CG1	ILE		666		56.724	2.800	94.203	1.00	
	2499	CD1	ILE		666		56.305	3.460	92.869		45.35
	2500	CG2	ILE				54.692	3.137	95.468		42.19
	2501	C	ILE				54.729	0.884	96.947	1.00	43.44
	2502	0	IĻE				54.624	1.234	98.167		43.04
	2503	N.	MET				53.817	0.140	96.328		42.32
	2504	CA	MET				52.569		96.938		42.19
		CB	MET				51.932	-1.230	95.817		41.53
	2506	CG	MET			-	51.176	-2.507			47.32
	25.07	SD	MET				49.731		94.829		52.61
	2508	CE	MET			٠.	50.549	-1.966			44.11
	2509	Ç			667		52.855	-1.095			40.97
	2510	Ŏ Ö				-	52.115		99.249		40.07
	2511	N			668		53.973		98.310		41.23
	2512	CA	GLY				54.340	-2.512	99.534		40.60
	2513	C			668		54.751		100.685		40.90
		.0	GLY				54.848		101.852		40.12
	2515				669		54.995	•	100.355		42.10
	2516.	CA				š		0.588			41.36
		Ų11		_		9"	. ۵ د ۵ ۰ پ د	0.500	,_01.090	1.00	±±.50

A	В	. C	D	E		F	G	Н	•	I	J
2517	СВ	GLN	В	669		55.949	1.743	100.7	49	1.00	40.50
2518	CG	GLN		669		57.369	1.598	100.4		1.00	44.93
2519	CD			669		57.848	2.816	99.7		1.00	53.63
2520	OE1	GLN	,	669		57.922		100.2		1.00	55.16
2521	NE2	GLN		669		58.134	2.617	98.4			51.35
2522	Ċ			669		53.996	1.102	102.0		1.00	43.35
2523	0			669		54.128	1.753	103.0			45.25
2524	N	PHE		670		52.769	0.833	101.5		1.00	41.08
2525	CA	PHE	В	670		51.612	1.398	102.1		1.00	37.80
2526	CB	PHE	В	670		50.688	2.045	101.0		1.00	37.43
2527	CG	PHE	В	670		51.446	2.912	100.0			36.83
2528	CD1	PHE	В	670	,	51.220	2.868	98.7		1.00	36.12
2529	CE1	PHE	В	67 O		51.971	3.676	97.8	52	1.00	41.89
2530	CZ ·	PHE	В	670		52.941	4.539	98.3		1.00	43.63
2531	CE2	PHE	Ŗ	670		53.078	4.636	99.7	46	1.00	39.81
2532	CD2	PHE	В	670		52.356	3.822	100.5	63	1.00	34.13
2533	C	PHE	В	670		50.888	0.359	102.8	65	1.00	35.75
2534	.0	PHE	Ŗ	670		51,117	-0.756	102.6	07	1.00	31.50
2535	N	SĘR	В	671		50.178		103.9			35.37
2536	CA	SER	В	671		49.179	-0.001	104.5	56	1.00	35.63
2537	CB ·	SER	В	671		49.795	-0.920			1.00	37.05
2538	OG	SER	В	671		48.754	-1,432				35.05
2539	$\mathbf{C}_{\perp}$	SER	В	671		48.009	0.915	105.1			35.05
2540	0	SER		671		48.061		106.1		1.00	36.76
2541	N	Η̈́ΙS		672		46.930		104.3			33.56
2542	CA	HIS		672		45.871		104.6			34.12
25.43	ĊВ	HIS		672		46.232		.103.9		•	32.36
2544		HIS		672		45.251		104.3			.33.02
2545	ND1	HIS	В	672		44.080		103.5			33.28
2546	CE1		B	672		43.406		104.1			34.10
2547	NE2	,	В	672		44.044	5.886	105.1			38.41
2548		HIS		672		45.198		105.3		1.00	38.63
2549	C	HIS	В	672		44.633		104.0			33.03
2550	0		B	672		44.733		102.9			33.41
2551 2552	N CA	HIS HIS	ВВ	673 673		43.502	1.611	104.6			30.53
2553	CB	HIS	В	673		42.230 41.296	1.095 1.817	104.2			31.97
2554	CG.		В	673		39.877	1.451	105.2		1.00	30.58 37.08
2555		HIS				39.369	0.217				42.49
2556		HIS		673		38.051		105.4			43.15
2557		HIS				37.690		104.8			31.71
2558				673		38.814		104.7			39.22
2559	C	HIS				41.832		102.8			33.87
2560	0	HIS				40.989		102.2			34.38
2561	N			674	•	42.323	2.594				33.75
2562	CA	ASN		674		41.797		101.1			32.88
2563	CB	ASN		674		41.166		101.2			30.97
2564	CG	ASN				39.921		102.0			31.43
2565		ASN				38.806	3.959				30.88
2566		ASN				40.022		103.2			20.74
2567	C ·	ASŅ				42.854		100.0			31.69
2568	Ò	ASN				42.730	3.587	99.0			30.93

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2569
           ILE B 675
                            43.861
                                      2.055 100.334
      N
                                                      1.00 31.51
2570
      CA
           ILE B
                 675
                            44.993
                                      1.813
                                              99.460
                                                       1.00 30.93
2571
           ILE
                 675
                                      2.205 100.110
      CB
               В
                            46.273
                                                       1.00 31.44
2572
          ILE
               В
                 675
                            46.250
                                      3.687
                                            100.454
      CG1
                                                       1.00 28.51
2573
      CD1
          ILE
               В
                 675
                            46.340
                                      4.549
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                                                       1.00 31.74
2574
      CG2
          ΙĻΕ
                            47.486
                                      2.026
                                              99.005
               В
                 675
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2575
      C
                 675
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                                              99.215
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2576
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                 675
                            44.924
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2577
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                            45.186
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2578
      CA
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                 676
                            44.977
                                     -1.451
                                              97.663
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2579
      CB
           ILE
               В
                 676
                            44.919
                                     -1.703
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2582
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               В
                 676
                            46.229
                                     -1.573
                                              95.495
                                                       1.00 35.77
2583
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           ILE
                 676
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                                     -2.067
                                              98.326
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                                                       1.00
                                                            34.50
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                                              93.916
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                                              94.202
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                                                       1.00 47.53
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      CG2 VAL B 681
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                                              94.630
2622
      C
           VAL B 681
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                                              94.003
                                                       1.00 49.45
2623
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           VAL B 681
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                                              94.891
                                                       1.00 48.56
2624
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           ILE B 682
                            55.785 -12.422
                                              92.707
                                                       1.00 50.88
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A	Ŗ	Ċ	D	E		F.	G	Н	I	J
2625	CA	ILE				56.648	-13.445	92.194	1.00	52.35
2626	CB	ILE	В	682		56.040	-14.781	92.219	1.00	52.57
2627	CG1	IFE		682	4		-14.850	91.771	1.00	54.23
2628	CD1			682			-16.059	92.607	1.00	
2629	CG2			682			-14.986	93.632		48.84
2630	Ç	ILE		682		57.528	-13.017	91.033		54.22
2631	0	ILE		682		57.085		89.997	1.00	54.69
2632	N	SER		683		58.806		91.420	1.00	56.54
2633	CA	SER					-12.729	90.672	1.00	
2634	CB			683	•		-11.648	91.417	1.00	57.57
2635	OG	SER					-12.079	92.783		64.03
2636	Ċ			683			-14.088	90.824		60.75
2637	0	SER				60.093		91.285	1.00	61.98
2638 2639	N CA	ALA		684		61.921	-14.287 -15.660		1.00	
2640	CB	ALA						90.662	1.00	65:44
2641	C			684			-16.690	89.844	1.00	65.45 65.59
2642	0	ALA			•		-17.667	89.411		66.62
2643	N	TYR		685			-16.489	89.629		65.92
2644	CA	TYR		685	· -		-17.433	88.808		65.61
2645	CB	TYR					-18.132	89.646		66.23
2646	CG	TYR		685		59.148		90.468		69.68
2647	CD1	TYR	В	685			-18.961	91.769		67.64
2648	CE1	TYR	В	685		60.131	-19.935	92.519	1.00	71.61
2649	ÇZ	TYR.	В	685	* .	60.433	-21.157	91.970	1.00	74.46
2650	OH	TYR	В	685		61.042	-22.113	92.750	1.00	75.04
2651	ÇE2	TYR	В	685		60,081	-21.448	90.663	1.00	75.00
2652	CD2						-20.453	89.905	1.00	75.26
2653	C			685			-16.788	87.581	1.00	65.25
2654	0	TYR					-15.527	87.499	1.00	66.17
2655	Ņ			686	-)-		-17.617	86.612		63.68
2656	ÇA	ALÁ					-17.091	85.334		62.32
2657	СB	ALA				58.506		84.124		63.30
2658	C	ALA		686		56.596		85.432	1.00	62.05
2659 2660	O N	ALA		686 687		56.007		85.775 84.593	1.00	63.53
2661	N CA	PRO		687		•	-16.278 -15.047	01.000		60.53
2662	CB	PRO					-15.447	84.418	1.00	58.99 58.56
2663	CG			687			-16.897	84.821		60.26
2664	CD	PRO		687			-17.326	84.077		61.17
2665	C	PRO		687			-14.602	86.037		56.90
2666	0	PRO		687			-15.358	86.974		56.82
2667	N	MET					-13.428	86.143		55.27
2668	CA	MET					-12.750	87.404		54.44
2669	CB	MET		688	,		-11.566	87.255		55.33
2670	CG	MET	₿	688			-11.932	86.692	1.00	
2671	SD	MET	В	688		59.901	-11.043	87.530		60.68
2672	CE	MET		688		60.394	-9.447	86.370		57.44
2673	С			688			-12.281	87.695		53.73
2674	0	MET					-11, 957	86.766		55.62
2675	N	MET	В	689			-12.326	88.964		49.82
2676	.CA	MET	В	689		53.314	-11.945	89.372	1.00	45.50

Α	В	Ç	D	E		F	G	Н	I	J
2677	CB	MET	В	689	٠.,	52.726	-13.198	89.919	1.00	46.09
2678	CG	MET	В	689		52.209	-14.107	88.832	1.00	42.85
2679	SD	MET	В	689		51.622	-15.683	89.528	1.00	50.11
2680	CE	MET	В	689		50.901	-16.233	88.146	1.00	
2681	С	MET	В	689			-10.876	90.439	1.00	44.44
2682	0		В	689			-10.868	91.193	1.00	43.66
2683	N	ILE		690		52.546	-9.929	90.420	1.00	
2684	CA	ILE			, .	52.358		91.483		39.05
2685	СВ	ILE				52.225			1.00	
2686	CG1	ILE		690		53.596		90.607	1.00	
2687	CD1	ILE					-5.528	89.890	1.00	37.73
2688	CG2	ILE				51.421	-6.707	91.895	1.00	
2689	C	ILE				50.932	-9.386	91.986	1.00	38.72
2690	0 :			690		49.971		91.192	1.00	36.41
2691	N			691			-9.788	93.255	1.00	38.28
2692	CA	ILE					-10.296	93.856		37.73
2693	CB			691			-11.537	94.642	1.00	37.57
2694	CG1	ILE					-12.539	93.759		43.22
2695	CD1	ILE			•	•	-13.030	92.551		43.78
2696	CG2	ILE					-12.175	95.178		33.95
2697	C			691		48.965		94.809		37.68
2698	0	ILE				49.621		95.803	1.00	
2699	N	THR				47.707		94.597	1.00	36.61
2700	CA	THR			*	47.089		95.484	1.00	35.83
2701	CB	THR		•		46.777			1.00	
2702	OG1	THR				46.064		93.582	1.00	
2703	CG2	THR				48.064	-5799	94.178	1.00	
2703	C	THR				45.788		96.022	1.00	32.38 36.80
2705	.0	THR				45.333	-9.470	95.601		
2706	N	GLU				45.145	-7.663	96.924		38.54 37.13
2707	CA	GLU				43.857	-7.005 -8.165	97.503		
2708	CB	GLU				43.424	-7.317	98.719		
2709	CG	GLU				43.424	-7.317 -5.82 <b>4</b>	98.719	1.00	33.77
	·CD	GLU							1.00	36.54
2711	OE1					42.731 43.250				37.60
2712	OE1	GLU				41.720		100.137	1.00	38.54
2713	C	GLU		693		42.821	-8.028			
2714		GLU				42.890	-7.067	96.364 95.588		35.07
2715		TYR					-8.911			35.55
	N CA							96.272		32.10
2717		TYR		694		40.970	-8.809 -10.153			28.28
	CB CG							94.874		28.39
							-10.217	93.769		32.24
2719	CD1	TYR					-9.921	92.416		28.95
2720	CE1	TYR					-10.081	91.432		33.82
2721	CZ			694			-10.533	91.790		31.62
2722	ΟΉ	TYR					-10.655	90.899		37.93
2723	CE2	TYR					-10.758	93.113		35.35
2724	CD2	TYR					-10.619	94.080		35.75
2725	C	TYR				39.814		95.538		28.69
2726	O N	TYR				39.243		96.662		28.77
2727	N	MET				39.475			1,00	
2728	CA	MET	Þ	095		38.480	-6.015	94.790	T.00	28.69

Α	В	C	D	E		F	.G	Н	I	Ĵ
2729	CB	MET	В	695		39.057	-4.593	94.582	1.00	27.01
2730	CG	MET				40.089	-4.121	95.806		26.26
2731	SD	MET		695		39.137	-4.002	97.332	1.00	29.69
2732	CE	MET	В	695		38.140	-2.317	96.950	1.00	19.49
2733	·C	MET	В	695		37.337	-6.451	93.887	1.00	30.89
2734	0	MET				37.371	-6.254	92.716	1.00	35.87
2735	N			696		36.406	-7.188	94.437	1.00	31.23
2736	CA	GĿŪ		696		35.369	-7.846	93.720	1.00	32.82
2737	СВ	GLU		696		34.419	-8.666	94.666	1.00	30.79
2738	ÇG			696		33.717	-7.643	95.469	1.00	38.13
2739	CD			696		33.271	-8.107	96.846	1.00	48.34
2740	OE1			696		32.877	-9.291	96.897	1.00	61.33
2741	OE2	GĻŪ		696		33.160	-7.330	97.803	1.00	43.84
2742	Ċ			696		34.529	-7.028	92.836	1.00	32.02
2743	0			696		33.781	-7.625	92.021		31.01
2744	N	ASN	В	697		34.505	-5.694	92.943	1.00	33:21
2745	CA	ASN	В	697		33.694	-4.999	91.904	1.00	31.07
2746	CB	ASN	В	697		32.725	-4.026	92.537	1.00	30.83
2747	ÇG	ASN	В	697		31.440	-4.657	92.940	1.00	34.34
2748	OD1	ASN	В	697		30.947	-5.594	92.243	1.00	34.99
2749	ND2	ASN	В	697	•	30.834	-4.156	94.055	1.00	28.78
2750	C	ASN	В	697		34.630	-4.265	90.926	1.00	31.59
2751	0	ASN	B	697		34.193	-3.413	90.103	1.00	31.69
2752	N	GLY	В	698		35.910	-4.526	90.990	1.00	29.27
2753	CA	GLY		698		36.768	-3.815	90.060	1.00	29.77
2754	C ·	GLŸ	В	698		36.882	-2.261	90.054	1.00	29.16
2755	0	GLY		698		36.746	-1.550	91.056	1.00	31.76
2756	·N			699		37.160	-1.773	88.888		27.39
2757	CA			699		37.387	-0.402	88.524		26.35
2758	CB			699		37.888	-0.293	87.086		25.30
2759	С			699		36.179	0.215	88.629	1.00	27.91
2760	0	ALA		699		35.168	-0.299	88.130	1.00	30.28
2761	Ņ	LEU		7.00		36.280	1.357	89.268		29.27
2762	CA	LEU		700		35.121	2.026	89.707		.32.33
2763	ĊВ	LEU		700		35.450	3.069	90.838		29.30
2764	CG	LEU		700		34.459	4.089	91.301	1.00	31.76
2765	CD1			700		33.464	3.627	92.353	1.00	30.61
2766		LEU		700		35.145	5.322	91.920		28.14
2767	C			700		34.449	2.671	88.617		30.67
2768	O N	LEU		700		33.279	2.926	88.812		32.59
2769	N			701		35.175	3.092	87.584		28.67
2770 2771	CA CB			701 701		34.475	3.801	86.542		33.44
	CG					35.382 36.230	4.505	85.575		33.00
2772		ASP		7.01			3.542	84.702		
2773 2774		ASP				36.810 36.395	2.573 3.751			37.75 40.32
2775	C .	ASP		701		33.529	2.791	83.440 85.837		33.01
2776	0			701		32.301	3.048	85.715		32.42
2777	N.			702		34.074	1.635	85.538		30.90
2778	CA			702		33.249	0.568	84.960		35.12
2779	CB			702		34.186	-0.548	84.449		37.13
2780	CG			702		33.542	-1.537	83.686		47.55
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Α	A	В	С	D	E .		F	٠.	G	•	H	I	· J
2	781	CD	LYS	В	702		34.296	-2.	821	83	. 631	1.00	60.43
	782	CE	LYS				33.493		.758		.740		63.91
	783	NŻ	LYS				34.151				. 655		69.98
	784	C	LYS		702		32.158		.088		. 872		35.34
	785	Ö	LYS	В	702		31.006						
									.038		.504		36.22
	2786	N	PHE		703		32.421		.020		.179		37.97
	2787	CA	PHE				31.403		.517		.060		34.72
	2788	CB		Ŗ			31.980		.605		.436		35.11
	789.	CG	PHE				30.985		. 877		. 473		29.25
	2790	CD1	PHE		703		30.252		. 115		.505		27.25
	791	CE1	ÞΗΕ		703		29.389		.361		525		29.92
	792	$CZ_{.}$	PHE	В	703		29.256		.467	92	.569	1.00	29.83
2	2793	CE2	PHE				29.913	-0.	.313	92	. 538	1.00	29.77
	794		PHE	В	703		30.785	0.	.001	91	. 443		30.63
- 2	795	C	PHE	В	703		30.265	0.	452	88	.121	1.00	36.80
2	2796	Ο.	PHE	В	703		29.032	0.	.086	88	.137	1.00	37.46
2	2797	N.	LĘU	В	704		30.622	1.	.724	88	.157	1.00	36.09
2	798	CA	LEU	В	704	•	29.567	2.	.730 .			1.00	35.58
2	2799	CB	ĻEU	В	704		30.162	4.	.112	88	.554		36.04
2	2800	CG	ĻEU	В	704		30.722		.526	89	.921	1.00	39.33
2	2801	CD1	LEU	В	704	٠,	31.453		870				39.49
	802		LĘŪ				29.689		.488		.097		39.49
2	2803		LEU				28.723		859		.005		35.48
	804	0	LEU		704		27.545		304		.050		36.13
	805	N	ARG		705		29.342		607		.865	1.00	36.71
		CA	ARG		705		28.645		. 652		601		37.41
	807	СВ	ÄRG				29.599		.330		. 433		37.84
	808		ARG				30.260		.590		.802		34.77
	2809	CD	ARG		705		30.660		455		.367		41.95
	810	NE	ARG		705	 •	31.988		.810		.271		42.52
	811	CZ	ARG		705		33.068		374		792		45.05
	812	NH1	ARG		705		34.261		.852		. 678		42.04
	813	NH2	ARG				32.913		. 565		.399		40.02
	2814	Ç	ARG				27.609		.598		. 550		40.12
	815	0	ARG				26.733		. 639		.716		43.46
	816	N	ĢLU				27.773		561		.322		41.24
	2817		GLU		706		26.916				.216		43.79
	818	СВ	GLU				27.684		.832		.558		46.45
	819		GLU.				28.385		.583		.416		53.31
	820	CD	GLU				29.070		.871		.011		65.10
	821						28.273		.757		.532		68.07
	822		GLU				30.368		.034		. 995		63.05
		C	GLU		706		25.852		364		. 216		43.47
	824	0	GLU		706		24.864		.051		.164		45.43
	825	N	LYS				26.029		:565		.117		43.43
	826	CA	LYS				25.029		. 565 . 851		.098		44.44
	827	CB		В	_		25.584		. 891 . 449		. 490		44.44
	828	CG	LYS				26.172						46.43
	829					*	25.573		.029		. 491		
		CD	LYS		707				.880		.569		43.24
	830	CE	LYS		707		25.352		405		. 147		48.65
	831	NZ	LYS		707		24.010		911		. 629		46.05
4	832	С	LYŚ	В	/ / /		24.448	۷.	.319	88	.048	1.00	43.63

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	A	B	C	D	E		F	G	. Н	Ì	J
	2833	0	LYS	В	707		23.968	2.911	89.012	1.00	43.30
	2834	N	ASP		708		24.510	2.886	86.899		43.40
	2835	CA	ASP		708		24.061	4.208			45.41
	2836	СВ	ASP	-	708		23.816	4.329	85.214		45.17
	2837	CG	ASP		708		23.571	5.756	84.769	1.00	51.04
	2838	OD1	ASP		708		23.369	5.861	83.513	1.00	
	2839	OD2	ASP		708		23.578	6.789	85.536		50.26
	2840	C .	ASP		708		22.776	4.514	87.400	1.00	46.40
	2841	0	ASP		708	•	21.809	3.760	87.256	1.00	
•	2842	N	ĢLY	В	709		22.748	5.610	88.155	1.00	
	2843	CA	GLY	В	709 .		21.516	6.076	88.791	1.00	
	2844	C	GLY	B	709		21.043	5.454	90.056	1.00	45.97
	2845	O	GLY	В	709		20.134	5.987	90.790	1.00	
	2846	N	GLU	B	710	- 1	21.713	4.355	90.402	1.00	46.33
	2847	CA	GLU	В	710		21.266	3.524	91.498		44.07
	2848	CB.	GĻU	В	710		21.639	2.091	91.156		43.37
	2849	ÇG	GLU	В	710		21.240	1.530	89.788	1.00	45.17
	2850	CD	GLÜ	В	710		21.407	0.012	89.910	1.00	50.33
	2851	OE1	GLU	В	710		21.591	-0.451	91.103	1.00	57.24
	2852	OE2	GLŲ	.В	710	٠	21.522	-0.675	88.894	1.00	45.95
	2853	C	GLU	В	710		21.845	3.640	92.888	1.00	45.39
	2854	0	GLU	В	710		21.521	2.760	93.718	1.00	47.34
	2855	N	PHE	В	711		22.760	4.543	93.196	1.00	43.13
•	2856	CA	PHE	В	711		.23.200	4.589	94.566	1.00	40.55
	2857	CB	PHE	В	711		24.679	4.658	94.597	1.00	39.03
-	2858	CG -	PHE	В	711		25.276	3.409	94.246	1.00	42.05
	2859	ÇD1	PHE		711		26.050	3.281	93.108	1.00	38.47
	2860		PHE		711 .	1	26.599	2.064	92.802		39.65
	2861	CZ	PHE		711		26.275	0.880	93.622		41.38
	2862	CE2	PHE		711		25.452	1.062	94.740		34.06
	2863	CD2	PHE		711	•	24.989	2.245	95.050		37.46
	2864	C	PHE		711		22.626	5.863	95.009	1.00	
	2865	0	PHE		711		22.154	6.588	94.204	1.00	41.46
	2866		SER				.22.638	6.126	96.287	1.00	42.27
	2867	CA	SER		712		22.217	7.392	96.828		43.06
	2868	CB	SER		712		22.065	7.169			41.23
	2869	OG C	SER		712		23.405		98.787	1.00	49.09
	2870 2871		SER	•	712		23.457	8.292	96.753	1.00	43.66
	.2872	O N	SER VAL				24.613 23.235	9.574	96.636 96.953		45.02 42.17
	2873	CA	VAL		713		24.207	10.574	96.853		42.95
	2874	CB	VAL		713		23.524	11.961	97.062		44.89
	2875		VAL		713		24.513	13.096	97.189	1.00	
	2876		VAL		713		22.675	12.272	95.826	1.00	
	2877	C	VAL		713		25.151	10.328	97.995	1.00	43.30
	2878	Ō	VAL				26.361		97.881		41.24
	2879	N	LEU		714			9.742	99.082		42.36
	2880	CA	LEU				25.412		100.294		42.34
	2881	CB	LEU		714		24.549		101.456		41.80
	2882	CG	LEU		714		24.175		102.419		45.27
	2883		LEU	В	714		23.237		103.631		45.36
	2884	CD2	LEU	В	714		25.513·	10.577	102.995	1.00	43.80
		¥ .						•	•		

Α	В	C D	E.		F	G	H	I	J
2885	С	LEU B	714		26.436	8.393	99.951	1.00	40.57
2886	Ō	LEU B			27.671	8.526	100.117	1.00	40.01
2887	N	GLN B		*	25.900	7.402	99.314	1.00	
2888	CA	GLN B			26.755	6.362	98.870	1.00	40.81
2889	СВ	GLN B			25.933		98.183		40.42
2890	CG	GLN B			25.177	4.515	99.255	1.00	40.01
2891	CD .	GLN B			24.070	3.635	98.723	1.00	44.67
2892	OE1	GLN B			23.548	3.831	97.622	1.00	44.92
2893	NE2	GLN B	715		23.716	2.651	99.517		48.08
2894	C	GLN B	715		27.860	6.935	98.036	1.00	39.80
2895	Ö	GLN B	715		29.054	6.675	98.339	1.00	42.92
2896	N .	LEU B	716		27.532	7.760	97.064	1.00	36.73
2897	CA	LEU B	716		28.556	8.274	96.227	,1.00	35.84
2898	CB	LEU B	716		27.903	9.036	95.104	1.00	37.36
2899	CG	LEU B	716		27.084	8.148	94.217	1.00	36.58
2900	CĎ1				26.356	9,177	93.311	1.00	46.24
2901	CD2	LEU B			27.996	7.350	93.371	.1.00	37.81
2902	C	LEU B	716		29.573	9.163	96.975	1.00	36.89
2903	0	LEU B			30.819	9.095	96.782	1.00	36.93
2904	N	VAL B			29.051	10.026	97.831	1.00	37.35
2905	CA,	VAL B			29.898	10.905	98.613	1.00	36.10
2906	CB	VAL B			28.967	11.708	99.387	1.00	37.20
2907	-	VAL B			29.667		100.344	1.00	33.48
2908		VAL B			28.088	12.401	98.375	1.00	38.82
2909	C ·	VAL B			30.870	10.002	99.410	1.00	38.05
2910	0	VAL B			32.154	10.206	99.454	1.00	37.55.
2911	N	GLY B			30.264	8.952	99.981	1.00	36.80
2912	CA	GLY B			31.042	8.022	100.772	1.00	33.97
2913	. C .	GLY B			32.163	7.457	100.020	1.00	34.81
2914 2915	O N	GLY B			33.349	7.436	100.512	1.00	37.01
2915	CA	MET B	-		31.892	7.099	98.779	1.00	34.31
2917	CB	MET B		~	33.019 32.491			1.00	31.67
2918	CG	MET B			31.662	6.176 4.841	96.577	1.00	32.74 35.62
2919	SD	MET B			30.875	4.103	96.825 95.295	1.00	55.32
2920	CE	MET B			30.945	5.495	94.494	1.00	42.34
2921	C	MET B			34.081	7.610	97.784	1.00	30.03
2922	0	MET B			35.279	7.293	97.765	1.00	32.08
2923	N	LEU B			33.687	8.847	97.618		30.17
2924	CA	LEU B			34.667	9.890	97.346		33.37
2925	СВ	LEU B			33.986	11.242	96.935		32.33
2926	CG	LEU B			33.343	11.032			38.69
2927		LEU B			32.375	12.150	95.300		38.75
2928		LEU B			34.427	10.867			35.80
2929	. Ç	LEU B			35.489	10.109	98.597		32.85
2930	Ó	LEU B			36.671	10.336			31.06
2931	Ņ	ARG B			34.809	10.018	99.755		34.48
2932	CA	ARG B			35.496		100.996		33.62
2933	CB	ARĠ B	721		34.472		102.146		35.11
2934	CG	ARG B	721		35.051		103.478		34.63
2935	CD .	ARG B			35.575	9.494	104.326	1.00	39.88
2936	NE	ARG B	721		36.004	9.899	105.636	1.00	43.02

A	В	C	D	E			, È	, <b>G</b>	I	Н	I	J
2937	CZ	ARG	В	721			36.937	9.323	106.3	397	1.00	45.17
2938	NH1	ARG	В	721			37.612	8.271	105.9	961	1.00	40.58
2939	NH2	ARG	В	721			37.213	9.851	107.	611	1.00	38.32
2940	С	ARG	В	721			36.678	9.202	101.	170	1.00	31.50
2941	0	ARG	В	721			37.783	9.594	101.	591	1.00	32.33
2942	N	GĻY	В	.722			36.429	7.940	100.9	919	1.00	30.70
2943	CA	GLY	В	722			37.450	6.885	100.9	918	1.00	24.89
2944	C	GLY	В	722			38:535	7.253	99.9	976	1.00	26.45
2945	0	GLY	В	722			39.751	7.161	100.3	307	1.00	27.04
2946	N	ILE	В	723			38.180	7,638	98.		1.00	24.68
2947	CA	ILE	В	723			39.285	7.928	97.		1.00	25.69
2948	CB	ΙĻΕ	В	723			38.728		96.	509	1.00	25.40
2949	CG1	ILE	В	723			38.089	7.129	95.7	744	1.00	23.38
2950	CD1	ILE	В	723			36.956	7.550	94.	656	1.00	17.00
2951	CG2	ΙĻΕ	В	723			39.915	8.818	95.	562	1.00	25.42
2952	C		В	723			40.040	9.056	98.		1.00	27.97
2953	0			723			41.273	9.063	98.		1.00	29.92
2954	N :	ALA		724			39.321	10.112	98.8		1.00	27.72
2955	CA	ALA		724			40.055	11.203	99.3		1.00	31.14
2956	CB	ALA		724			39.092	12.388	99.8		1.00	30.09
2957	C	ALA		724			40.994	10.756	100.		1.00	32.43
2958	0	ALA		724			42.102	11.293	100.		1.00	36.23
2959	N	ALA			•		40.599	9.778	101.		1.00	32.15
2960	CA	ALA		725			41.367	9.437			1.00	33.49
2961	CB:	ALA		725	٠.		40.465	8.568			1.00	31.16
2962	C	AĻA		725			42.563	8.658				33.06
2963	0	ALA		725			43.630	8.759	102.		1.00	36.69
2964	N	GLY		726			42.407	7.837	101.		1.00	
2965 2966	CA C	GLY GLY		726 726			43.519 44.531	7.036 8.080	100.	-	1.00	26.93
2967	0 .	GĻŸ		726			45.699	7.946	100.		1.00	31.48 28.56
2968	N	MET	В	727			44.033	9.136	99.4		1.00	32.07
2969	CA	MET	В	727			44.899	10.121	98.8		1.00	33.27
2970	CB	MET		727			44.051		97.8		1.00	33.40
2971	CG	MET	В	727		·	43.815	10.423	96.3		1.00	31.54
2972	SD	MET	В	727			45.180	9.612	95.8		1.00	35.66
2973	ÇE	MET	В	727			46.441	10.934	95.4		1.00	31.92
2974	Ċ	MET		727			45.618	10.984			1.00	33.03
2975	0	MET		727			46.780	11.331	99.8			31.10
2976	N -	LYS		728			44.889					33.25
2977	CA	LYS	В	728			45.494	12.060				35.83
2978	CB	LYS	В	728			44.516	12.292	103.2	204		36.03
2979	CG	LYS	₽	728			45.095	12.999	104.4	451	1.00	41.39
2980	CD	LYS	B	728			44.169	12.657	105.	549	1.00	49.57
2981	CE	ĹYS	В	728			44.504	13.360				58.31
2982	NZ			728			44.561	12.303	107.9	•		63.45
2983	С			728			46.658	11.233	102.	743	1.00	38.33
2984	0	LYS					47.792		103.0			39.63
2985	N	ŢYR		729			46.494	9.922	102.			36.94
2986	CA	TYR		729			47.452		103.2		1,00	36.82
2987	CB	TYR		729			46.858	7.693	103.6		1.00	34.05
2988	CG	ŢŸR	В	729			47.899	6.657	103.8	835	1.00	34.37

A	В	С	D	E			F	G	H	Ĭ	J
2989	CD1	TYR	В	729			48.409	6.323	105.122	1.00	31.09
2990	CE1	TYR	В	729			49.368	5.343	105.286	1.00	25.86
2991	CZ	TYR	В	729			49.864	4.733	104.160	1.00	32.58
2992	OH	TYR	В	729			50.764	3.772	104.302	1.00	30.28
2993	CE2	TYR	В	729			49.369	5.022	102.863	1.00	28.90
2994	CD2	TYR	В	729			48.343	5.918	102.735	1.00	28.62
2995	C	TYR	В	729			48.625	9.040	102.348	1.00	-38.24
2996	Ο.	TYR	В	729	•		49.760	9.011	102.837	1.00	40.23
2997	N	LEU	B	730			48.419	9.012	101.057	1.00	37.36
2998	CA	LEU	В	730			49.598	8.971	100.182	1.00	38.39
2999	CB	LEU	В	730			49.161	8.801	98.691	1.00	38.07
3000	CG	LEU	В	730			49.096	7.274	98.506	1.00	40.77
3001	CD1	LĘU	В	730			48.033	6.879	97.535	1.00	46.74
3002	CD2	LEU	В	730	- !		50.540	6.625	98.141	1.00	40.15
3003	С	LEU	В	730			50.415.	10.239	100.271	1.00	36.79
3004	0 .	LEU	В	730			51.565	10.238	100.325	1.00	35.87
3005	N	ALA	В	731			49.753	11.330	100.211	1.00	38.07
3006	CA	ALA	Ŗ	731			50.421	12.597	100.382	1.00	41.33
3007	ĊВ	ALA	В	731			49.377	13.802	100.342	1.00	35.88
3008	C	ALA	В	731			51.191	12.559	101.743	1.00	41.93
3009	0	ALA	Ŗ	731			52.353	12.861	101.784	1.00	41.92
3010	N	ASN	В	732			50.556	12.176	102.837	1.00	43.62
3011	CA	ASN	В	732			51.340	12.240	104.035	1.00	45.24
3012	CB	ASN	В	732			50.558	11.897	105.275	1.00	45.55
3013	CG	ASN	В	732			49.605	12.947	105.613	1.00	45.67
3014	OD1	ASN	Þ	732	-		49.792	14.047	105.114	1.00	45.78
3015	ND2	ASN	В	732			48.503	12.620	106.390		42.26
3016	C	ASN	В	732			52.439	11.247	103.945	1.00	46.19
3017	0	ASN		732		-	53.250	11.259	104.809	1.00	48.18
3018	N	MET		733			52.475	10.319	102.986		
3019				733			53.611	9.396	102.967		
3020	СB	MET	В	733			53.181	8.051	102.457		
3021	ÇG	MET		733			52.418	7.229			44.11
3022	SD	MET		733			53.390	6.662	104.809		45.37
3023	CE	MET		733			54.537	5.722	104.067		
3024	C .	MET		733			54.473	10.030	101.973		
3025	0	MET		733			55.449	9.447	101.489		
3026	N	ASN		734	٠.		54.114	11.288	101.639		
3027	CA			734			54.895		100.620		45.76
3028	CB	ASN		734			56.293		101.146		48.02
3029	CĢ	ASN		734			56.917		100.855		55.08
3030		ASN		734			57.998		100.227		57.65
3031		ASN		734			56.191		101.227		57.16
3032	C			734			55.017	11.329	99.233		44.84
3033	O .			734			56.122	11.359	98,598		45.91
3034	N			735			53.933	10.733	98.723		43.14
3035 3036	CA	TYR		735 735			53.846	10.348	97.298		39.99 42.06
3036 3037	CB CG	TYR TYR		735			53.511 54.612	8,90 <u>4</u> 7,939	97.196		39.82
3037	CD1			.735			55.073	7.272	97.303 96.195		40.71
-3038	CE1			735			56.143		96.195		40.71
3040	CZ			735			56.659	6.076	97610		49.17
2040		* * * * * * * * * * * * * * * * * * * *	ب	, , ,			دردن، درد	0.070	21.010	1.00	37.40

	A	В	С	D	E		F	G	Н	I	J
	3041	ОН	TYR	В	735		57.681	5.174	97.808	1.00	53.69
	3042	CE2	TYR	В	735		56.180	6.710	98.706	1.00	46.44
	3043	CD2	TYR	В	735		55.118	7.596	98.563	1.00	44.21
	3044	C	TYR	В	735	÷ ,	52.766	11.131	96.513		40.01
	3045	Ο .	TYR	В	735		51.681	11.403	97.063	1.00	38.30
	3046	N	.VAL	В	736		53.084	11.534	95.242	1.00	39.05
	3047	CA	VAL	В	736		52.155	12.135	94.317	1.00	37.57
	3048	CB	VAL	В	736		52.978	12.826	93.220	1.00	40.62
	3049	CG1	VAL	В	736		52.210	13.815	92.384	1.00	40.34
	3050	CG2	VAL		736		54.164	13.336	93.780	1.00	46.41
	3051	С	VAL		736		51.824	10.887	93.435	1.00	37.17
	3052	0	VAL		736	-	52.735	10.241	92.930	1.00	29.75
	3053	N	HIS		737		50.539	10.633	93.185	1.00	37.35
	3054	ÇA	HIS				50.106	9.466	92.371	1.00	37.48
	3055	CB			737		48.645	9.217	92.703	1.00	37.46
	3056	CG	HIS	В	737		48.149	7.922	92.212	1.00	38.36
	3057	ND1	HIS	Ŗ	737		47.788	7.709	90.894		.33.89
	3058	CE1	HIS	В	737		47.448	6.446	90.753	1.00	38.45
	3059	NE2	HIS	В	737		47.527	5.845	91.941	1.00	38.58
	3060	CD2	HIS	B	737		48.022	6.737	92.850	1.00	36.23
	3061	Ç	HIS	В	737		50.310	9.689	90.885	1.00	37.35
	3062	0	HIS	B	737		50,900	8.930	90.179	1.00	37.49
	3063	N			738		49.921	10.862	90.420		41.12
	3064	CA	ARG		738		50.156	11.215	89.025	1.00	41.82
	3065	CB	ARG		738		51.548	10.752	88.576	1.00	42.45
	3066	CG	ARG		738		52.900	11.362	89.171	1.00	43.81
	3067	CD	ARG		738		53.934	12.099	88.306	1.00	50.41
	3068 3069	NE : CZ		B B	738 738	- 8	54.475 55.049	11.640	87.014	1.00	59.49
	3070		ARG ARG	В	738		55.115	10.452 9.499	86.751	1.00	66.23 66.49
	3071	NH2		В	738	•	55.533	10.202	87.671 85.535	1.00	66.53
	3072	C	ARG		738		49.061	10.581	88.104		42.10
•	3073	0		В	738		48.853	11.056	87.025	1.00	42.18
	3074	N	ASP	В	739		48.304	9.578	88.572	1.00	40.65
	3075	CA	A	В	739		47.402	8.839	87.683	1.00	37.25
	3076	CB		В	739		48.098	7.585	87.132	1.00	36.50
	3077	CG -	ASP		739		47.447	7.043	85.859	1.00	39.77
	3078	OD1			739		46.714	7.845	85.259	1.00	35.07
		OD2					47.588	5.843	85.423		38.97
	3080	C.	ASP		739		46.159	8.470	88.383		33.96
	3081	0	ASP		739	•	45.641	7.385	88.230		3313
	3082	N	LEU.		740		45.612	9.440	89.054		32.76
•	3083	CA	LEU		740		44.385	9.304	89.792		32.28
	3084	СВ	LEU		740		44.218	10.378	90.903		28.90
	3085	CĢ	LEU	В	740		42.918	10.273	91.633		31.41
	3086	CD1	LEU	В	740		42.750	8.844	92.335	1.00	29.24
	3087	CD2	LEU	В	740		42.714	11.301	92.751		31.09
	3088	С		-	740		43.230	9,487	88.854	1.00	33.40
	3089	0			.740		42.972	10.631	88.367		32.41
	3090	N	ALA				42.375	8.464	88.851		32,10
	3091	CA	ALA				41.256	8.492	87.939		31.90
	3092	СВ	ALA	В	741		41.795	8.228	86.473	1.00	25.99

Ä	В	C	Ď	E			F		G	Н		I	Ј.
3093	C	ALA	В	741			40.361		7.405	88.402		1.00	30.39
3094	0			741			40.849		6.468				32.43
3095	N			742			39.091.		7.450	87.997		1.00	30.00
3096	CA			742			38.230			88.434		1.00	28.92
3097	CB	ALA		742			36.771		6.688	88.146		1.00	32.43
3098	C	ALA	В	742			38.702		5.046	87.904		1.00	31.77
3099	Ο.	ALA	В	742			38.551		4.07.8	88.607			30.25
3100	N	ARG	Þ	743			39.282		4.907	86.696			31.71
3101	CA	ARG	В	743			39.685		3.568	86.348	:	1.00	32.57
3102	CB	ARG	В	743			40.311		3.530	84.893	•		30.75
3103	CG	ARG	В	743			41.249		4.519	84.625		1.00	29.61
3104	CD	ARG	В	743		٠.	42.260		4.076	83.465	. :	1.00	43.52
3105	NE	ARG	₿	743		ď	43.297		5.113	83.400	:	1.00	45.54
3106	ÇΖ	ARG	В	743			42.950		6.342	83.147		1.00	45.33
3107	NH1	ARG	В	74.3			41 651		6.558	82.868		1.00	38.16
3108	NH2	ARG		743			43.844		7.305	83.199		1.00	38.31
3109	,C	ARG		743			40.697		3.045	87.291		1.00	32.35
3110	Ŏ,	ARG		743			41.122		1.917	87.211	-	1.00	33.13
3111	N	ASN		744			41.306		3.909	88.055			33.51
3112	CA	ASN		744			42.357		3.337	88.857			32.87
3113	CB			744			43.651		4.144	88.701	-	1.00	33.36
3114	CG			744			44.393		3.813	87.400		1.00	34.78
3115		ASN		744			44.062		2.792	86.820			48.21
3116	ND2	ASN					45.248		4.718	86.851		1.00	31.64
3117	Ç			744			41.888		3.251	90.300			34.12
3118	0	ASN		744			42.689		3.242	91,157			36.14
3119	N			745			40.592		3.314	90.558			32.33
3120	CA	•		745			40.098		3.112	91.861			31.92
3121	CB	ILE		745			39.154			92.239			31.00
3122	CG1	ILE		745			39.824		5.704	92.215			32.78
3123	CD1	ILE		745	•		41.204		5.701	92.993		1.00	32.89
3124	CG2	ILE		745			38.602		3.943	93.507			25.39
3125	Ç	ILE		745			39.347		1.767	91.809			32.48
3126	0	ILE		745			38.592		1.602	90.864			32.62
3127 3128	Ņ CA	LEU LEU		746 746		ı	39.593		0.833	92.752			29.93
3129	CB	LEU		746			38.994		-0.526	92.790			28.79 27.96
3130	CG ·			746			40.047 41.188		-1.578 -1.793	93.158 92.142		1.00	27.80
3131	CD1	LEU	_	746			42.431		-2.746	92.142			
3132		LEU					40.582		-2.251	90.857			36.80 32.27
3133	Ċ			746			37.941		-0.457	93.907			31.64
3134		LEU					38.176	•	0.242	94.933			32.71
3135	·N			747			36.752		-1.061	93.727			32.95
3136	CA			747			35.729		-0.956	94.751			33.60
3137	CB			747			34.337		-0.627	94.211			35.06
3138		VAL					33.569		0.153	95.190			32.73
3139	CG2			747			34.311		-0.145	92.802			36.08
3140	C			747			35.379		-2.348	95.139			32.18
3141	O.			747			35:438		-3.132	94.271			32.47
3142	N			748			34.809		-2.569	96.331			
3143	CA			748			34.300		-3,.873	96.670			32.11
3144	CB	ASN	В	748			35.076		-4.503	97.805		1.00	29.71

A :	В	, G	D	E		F	G ·	Н	İ	J
3145	CĢ	ASN	B.	748		34.872	-3.789	99.093	1.00	30.19
3146	OD1	ASN	В	748		34.002	-2.965	99.154	1.00	29.21
3147	ND2	ASN	В	748		35.724	-4.051	100.145	1.00	27.55
3148	С	ASN		748		32.782	-3.847	96.880	1.00	32.91
3149	Ó	ASN		748		32.137	-2.821	96.558		34.46
3150	N	SER		749		32.200				31.86
3151	CA	SER		749		30.779	-4.924	97.589		32.16
3152	CB	SER		749		30.203	-6.341			33.15
3153	OG-			749			-7.147	98.772	1.00	
3154	C	SER		749		50.550	-4.108	98.724	1.00	33.33
3155	0	SER		749		29.213	-3.877		1.00	31.39
3156	N	ASN		750		31.368		99.517		34.87
3157.	CA	ASN		750		30.972		100.547		35.09
3158 3159	CB CG	ASN ASN		750 750		31.781 31.421	-2.859 -4.146	101.809	1.00	
3160	OD1	ASN		750		30.278	-4.140	102.582	1.00	41.91 38.82
3161	ND2					32.424	-4.652	102.349	1.00	46.14
3162	C	ASN				31.082	-1.295	100.025	1.00	34.62
3163	0	ASN		750		30.760	-0.354	100.737	1.00	
3164	N	LĘU			-	31.385	-1.151	98.738	1.00	31.97
3165	CA	LEU		751		31.511	0.150	98.134		33.21
3166	СВ	LEU		751			1.085	98,379		33.30
3167.	CG			751		28.944	0.583	97.933		29.08
3168	CD1	LEU	В	751		27.770	1.538	97.936		34.22
3169	CD2	LEU	В	751		29.187	0.432	96.569	1.00	.25.04
3170	С	LEU	В	751		32.774	0.820	98.675	1.00	31.97
3171	O	LEU				32.932	1.949	98.482	1.00	32.37
3172	N	VAL		752	•		0.112	99.330		31.80
3173	CA	VAL		752		34.884	0.756	99.838		32.23
3174	CB	VAL		752		35.557	-0.206	100847		34.25
3175		VAL		752		36.916	0.159	101.117	1.00	28.08
3176		VAL		752		34.701	-0.310	102.072	1.00	27.86
3177	C O	.VAL		752		35.761 35.900	0.974	98.604	1.00	34.48
3178 3179	N	VAL CYS		752 753		36.345	0.035 2.183	97.753 98.450	$1.00 \\ 1.00$	33.89 34.53
3180	CA .			753		37.139	2.163	97.238	1.00	33.46
3181	,	CYS		753		36.667	3.795	96.590	1.00	32.57
3182		CYS		753		35.024	3.589	95.866	1.00	33.85
3183	С	CYS				38.595	2.504	97.641		32.87
3184	O	CYS		753		38.918	2.994	98.661		33.65
3185	N ·	LYS		754		39.490	2.019	96.815		31.25
3186	CA	LYS	Ŗ	754		40.879	2.069	97.142	1.00	28.59
3187	CB	ĻYS	·B	754		41.393	0.682	97.601	1.00	28.62
3188	CG			754		40.612	0.009	98.777	1.00	25.26
3189	CD			754		41.255		99.092	1.00	26.47
3190	CE	LYS		754		40.451		100.084		31.42
3191	NZ			754		41.028		101.467		36.53
3192	C	LYS		754		41.659	2.488	95.931		29.63
3193	0			754		41.451		94.764		29.44
3194	Й			755		42.643	3.336	96.190	1.00	28.68
3195	CA	VAL				43.512	3.819	95.158		30.76
3196	СВ	VAL	В	/55		44.484	4.852	95.681	T.00	29.87

Ą	В	С	D	E	•	F	G	Н	I	J
3197		VAL		755		45.380	5.460	94.520		26.20
3198				755	•	43.750	5.907	96.257	1.00	
3199	C	VAL		755		44.391	2.708	94.759		31.83
3200	0	VÁL		755		44.894	2.059	95.618		30.86
3201	N ·	SER		756		44.722	2.641	93.486		33.08
3202	CA	SER		756		45.431	1.545	92.914		36.43
3203	CB	SER		756		44.472	0.481	92.259		37.70
3204	OG	SER		756		45.281	-0.617	91.571		40.69
3205	C	SER		756	•	46.368	2.061	91.849	1.00	37.72
3206	0	SER		756		46.466	3.263	91.576		37.99
3207	N	ASP		757		46.978	1.130	91.147		38.48
3208 3209	CA CB	ASP	В	757 757		47.861 47.023	1.499 $1.917$	90.074		41.72 41.39
3210	CG	ASP ASP		757		47.023	1.913	88.888 87.574	1.00	
3211	OD1	ASP		757		47.211	2.091	86.487	1.00	
3212		ASP	В	757		49.141	1.757	87.558		52.69
3212	C	AŞP	В	757		49.001	2.490	90.467	1.00	41.65
3214	0	ASP	В	757		48.943	3.671	90.267		41.11
3215	N	PHE	В	758	•	50.076	1.995	91.048		43.52
3216	CA	PHE		758		51.087	2.948	91.493		44.14
3217	CB	PHE		758		51,525	2.631	92.952	1.00	
3218	CG	PHE	В	758		50.456	2.888	93.920	1.00	38.35
3219	CD1	PHE	В	758		50.308	4.177	94.499	1.00	33.03
3220	CE1	PHE	В	758		49.233	4.488	95.392	1.00	.33.75
3221	CZ	PHE	В	758		48.282	3.458	95.734	1.00	35.68
3222	CE2	PHE	В	758		48.419	2.141	95.050		35.33
3223	CD2	PHE		758		49.531	1.901	94.184		37.29
3224	C	PHE		758		52.199	3.247	90.454	1.00	45.65
3225	0	PHE		758		53.160	4.088	90.646	1.00	46.52
3226	N	GLY		759	e e	51.903	2.709	89.282	1.00	46.03
3227	CA	GLY		759		52.617	2.856	88.048		47.12
3228	C	GLY		759		53.353	4.173	87.857 87.553		50.02
3229 3230	O N	GLY		759 760		54.588 52.664	4.163 5.294	87.553		53.05 46.21
3231	CA	ĻEU		760		53.371	6.532	87.683		47.41
3232	CB	LEU	-	760		52.504	7.502	86.833		46.97
3233	CG	LEU		760		52.025	7.054	85.450		52.65
3234	CD1	LEU		760		51.187	8.062	84.659		51.82
3235	CD2	LEU				53.252	6.691	84.637		51.03
3236	С	LEU		760		53.628	7.284	88.974		47.35
3237	,0	LEU		760	:	53.755	8.468	88.928		47.23
3238	N	SER	В	761		53.643	6.672	90.144	1.00	48.54
3239	CA	SER	В	761		53.583	7.610	91.262	1.00	49.64
3240	CB			761		52.674	7.066	92.329	1.00	47.14
3241	ÒС	SER		761		53.142	5.812	92,428	1.00	48.99
3242	C	SER		761		54.965	7.803	91.813		50.77
3243	0	SER		761		55.814	6.895	91.672		51.89
3244	N	ARG		762		55.227	8.947	92;427		50.64
3245	CA	ARG		762		56.576	9.132	92.940		51.02
3246	CB	ARG		762		57.561	9.689	91.897		52.96
3247	CG	ARG		762		57.051	10.548			55.70
3248	CD	ARG	Ŗ	762		57.559	10.114	89.374	Τ.00	67.92

Α	В	C	D	E			F	G	H_	I	J
3249	NE	ARG	В	762	•		57.115	8.769	88.974	1.00	75.81
3250	CZ ·	ARG		762			57.530	8.088	87.860	1.00	79.84
3251	NH1	ARG					57.034	6.858	87.589	1.00	77.74
3252		ARG		762			58.432	8,624	87.030	1.00	79.01
3253.	C	ARG		762			56.692	9,874	94.202	1.00	50.69
3254	0	ARG		762				10.587	94.600	1.00	50.50
3255	N	VAL		763			57,834	9.667	94.879	1.00	52.25
3256		VAL					58.143			1.00	53.91
3257	CB	VAL		763			59.438	9.932	96.770	1.00	
3258		VAL		763	-		59.822	10.769	98.058	1.00	56.45 53.41
3259		VAL		763			59.293	8.431	97.046	1.00	53.98
3260	ÇG2 C	VAL		763			58.323	11.921	95.757	1.00	52.61
3261	0	VAL					58.998	12.205	94.849	1.00	52.54
3262	N	ALA		764			57.680	12.203	96.460	1.00	53.25
3263	CA	AĻA		764			57.640	14.215	-	1.00	
3264	CB	ALA		764	•		56.842		97.079		55.20 55.95
3265	C	ALA		764			58.997	15.013 14.901		1.00	
3266	0	ALA		764			60.011	14.667	96.486		58,47
3267	N.	ALA		778				8.707		1.00	58.95
3268	CA	ALA		778			52.512	9.379	77.650	1.00	
3269	CB	ALA					53.274		78.726	1.00	64.24
		ALA		778			54.203	10.520	78.164	1.00	63,79
3270 3271	C.			77.8			52.320	9.882	79.851	1.00	
3271	O	ALA		778			52.320	9.355	80.966		63.11
3272	N	ILE		779			51.472	10.863	79.572		61.82
3273	CA	ILE		77.9			50.565	11.342	80,639	1.00	59.71
3274	CB ·			779			51.075	12.717	81.033	1.00	60.71
3275	CG1	ILE		779			52.166	12.503	82.090	1.00	
3276	-CD1	ILE		779			53.432	13.193	81.727	1.00	66.21
3277	CG2	ILE		779			49.943	13.685	81.434	1.00	62.88
3278	C	ILE		779		•	49.010	11.248	80.435	1.00	57.07
3279	O	ILE		779			48.552	11.065	79.280	1.00	55.98
3280	N	PRO		780			48.228	11.201	81.549	1.00	54.65
3281	CA	PRO		780			46,770	11.559	81.509	1.00	52.75
3282	CB	PRO		780			46.321	11.448	82.969	1.00	53.47
3283	CG	PRO		780			47.247	10.442	83.543	1.00	51.28
3284 3285	, CD	PRO		780			48.603	10.801	82.915 81.191	1.00	54.55
3286	C O	PRO		780			46.610	12.952		1.00	50.88
		PRO		780			46.988	13.770 13.222	82.008	1.00	56.60
3287	Ņ			781 781			46.112		80.017		46,48
3288	CA	ILE		781			45.849	14.560	79.767		43.01
3289	CB	ILE		781.			45.897	14.790	78.286		41.97
3290	CG1			781			47.316	15.269	78.013	1.00	
3291	CD1			781			48.308	14.194	77.831		50.28
3292	CG2	ILE		781			45.107	15.941	77.979	1.00	38.03
3293	С			7.81			44.611	15.023	80.581	1.00	
3294	O N			781			44.748	15.814	81.489	1.00	40.34
3295	N	ARG					43.460	14.431	80.284	1.00	
3296	CA			782		-	42.166	14,646	80.837	1.00	38.55
3297	CB			782			41.127	13.968	79.858		40.91
3298	CG	ARG		782			40.395	12.734		1.00	39.72
3299	CD	ARG		782			40.142	12.040	78.779		44.03
3300	NE	AKG	B	782			38.977.	12.556	78.126	1.00	50.70

A -	В	С	D	E .		F	G	Н	I	J
3301	ÇZ	ARG	В	782		38.978	13.000	76,853	1.00	52.30
3302	NH1			782		37.828	13.451	76.324		46.70
3303	NH2	ARG	В	782		40.126	13.022	76.153	1.00	
3304	C	ARG		782		42.033	14.486	82.369	1.00	36.84
3305	0	ARG		782		41.124	15.127	82.932	1.00	
3306	N			783		42.986	13.873	83.062		35.41
3307	CA			783		42.931	13.863	84.548		36.23
3308	СВ	TRP		783		43.045	12.446	85.168		35.36
3309	CG	TRP		783		41.939	11.580	84.894		34.89
3310	CD1			783		40.959	11.347	85.728		34.55
3311	NE1			783		40.032	10.518	85.152		35.15
3312	CE2			783		40.417	10.196	83.889	1.00	
3313	CD2	TRP		783		41.611	10.885	83.662		29.59
3314	CE3			783		42.243	10.720	82.424	1.00	33.66
3315	CZ3			.783	•		9.873	81.461	1.00	39.20
3316	CH2			783		40.386		81.697	1.00	1.7
3317	CZ2			783		39.750		82.892	1.00	
3318	C	TRP		783		44.019	14.767	85.182	1.00	37.26
3319	Ō			783		44.078	14.934	86.462	1.00	32.75
3320	N			784	1	44.868	15.335	84.294	1.00	
3321	CA	THR		784		46.074	16.069			38.14
3322	CB	THR		784		47.220	15.822	83.921		38.22
3323				784		47.407	14.394	83.791		32.84
3324	CG2			784		48.499	16.365	84.574		27.62
3325	C	THR		784		45.959		84.819	1.00	
3326	Ō	THR		784		45.451	18.183	83.855	1.00	
3327	N			785		46.415	18.118	85.944		42.78
3328	CA			785		46.490	19.525	86.209		42.20
3329	СВ			.785.		47.126	19.714	87.503		41.73
3330	C			785		47.330	20.250	85.152	1.00	
3331	Ō			785		48.358	19.707	84.633	1.00	
3332	N			786		46.867	21.443	84.823	1.00	
3333	CA			786		47.509	22.281	83.783	1.00	
3334	CB			786		46.514	23.437	83.610	1.00	
3335	CG	-		786		45.682	23.472	84.854	1.00	
3336	CD	PRO		786		45.625	22.022	85.316	1.00	
	C			786		48.937	22.647	84.199	1.00	
3338	Ó			786		49.876	22.335	83.415	1.00	
3339	N	·GLU	В	787		49.161		85.458	-	47.66
3340	CA			787		50.585		85.879		48.56
3341	СВ			787		50.799	23.521			50.25
3342	CG			787		50.506	22.415			47.77
3343	CD			787		49.055	22.343	,		45.14
3344		ĢLU				48.239				47.89
3345	OE2	GLU	В	787		48.675	21.581	89.750		48.40
3346	C			787	•	51.413	22.011	85.524		48.85
3347	0	GLU		787		52.601	22.103	85.448		49.02
3348	N			788		50.810	20.871	85.240		50.59
3349	CA			788		51.630	19.703	85.119	1.00	
3350	СВ			788		51.138			1.00	
3351	C			7.88	•	51.881			1.00	54.39
3352	0	ALA	В	7.88			18.429			53.44

A	В	.C -	D	E		F	G	Н	Ï	J
3353.	N	ILE	В	789		51.076	19.709	82.848	1.00	58.49
3354	ÇA	ILE	В	789.		51.180	19.309	81,466	1.00	60.06
3355	CB	ILE	В	789		49.791	19.422	80.879	1.00	60.19
3356	CĢ1	ILE	В	789		49.005	18.288	81.542		57.40
3357	CD1	ILE	В	789		47.545	18.338	81.498	1.00	52.54
3358	CG2	ILE:	В	789		49.888	19.223	79.405	1.00	60,76
3359	C	ILE	В	789		52.175	20,260	80.860	1.00	61.11
3360	0	ILE	В	789		53.217	19.903	80.277	1.00	61.28
3361	N	SER	В	790		51.775	21.498	81.090	1.00	63.37
3362	CA	SER		790		52.455	22.746	80.870	1.00	65.13
3363	CB	SER	В	790		51.887	23.687	<b>§1.908</b>	1.00	64.75
3364	OG	SER	В	790		52.132	22.945	83.109	1.00	72.95
3365	C	SER	В	790		53.883	22.498	81.324	1.00	65.49
3366	0	SER		790		54.721	22.181	80.519	1.00	65.88
3367	N .	TYR		791		54.080	22.534	82.650	1.00	67.60
3368	CA	TYR		791·		55.356	22.655	83.371	1.00	67.61
3369	ĊВ	TYR		791		55.133		84.492	1.00	67.72
3370	CG	TYR		791		54.527	24.979	84.072	1.00	69.06
3371	CD1	TYR		791		53.373	25.468	84.681	1.00	73.54
3372	CE1	TYR		791		52.811	26.729	84.343	1.00	77.27
3373	CZ	TYR		791		53.434	27.536	83.361	1.00	78.11
3374	OH	TYR		791		52.888	28.779	83.031	1.00	74.15
3375	CE2	TYR		791		54.617	27.080	82.777	1.00	76.67
3376	CD2	TYR		791		55.167	25.794	83.142	1.00	74.63
3377	C	TYR		791		55.841	21.341	83.987	1.00	67.44
3378	0	TYR		791		56.991	21.177		1.00	66.78
3379	N	ARG		792		54.955	20.377	83.993	1.00	66.21
3380	CA	ARG		792		55.418	19.098	84.530	1.00	65.39
3381	CB	ARG		792		56.655	18.642	83.811	1.00	65.99
3382	CG	ARG		792		56.702	17.131	83.750		72.90
3383 3384	CD .	ARG		792		57.978	16.532	83.158		81.61
3385	NE CZ	ARG		792 792		58.984	17.572 17.394	83.010	1.00	88.48
3386	NH1	ARG ARG		792		60.191	18.468	82.478	1.00	91.91
3387	NH2	ARG		792		60.980 60.592	16.196	82.408 82.009	1.00 $1.00$	92.54
3388	C	ARG		792		55.624	19.127	86.033	1.00	89.53 61.73
3389	0		B	792		56.452	18.430	86.557	1.00	61.41
3390	N	ALA				54.792	19.903	86.722	1.00	58.85
3391	CA.	ALA				54.853	20.039	88.179		56.36
3392	CB.	ALA			:	54.957	21.543	88.590		55.91
3393	C	ALA				53.713	19.275	88.952		55.37
3394	0	ALA				52.576	19.774	89.157		53.05
3395	N	PHE				54.087	18.085	89.403		53.01
3396	CA	PHE				53.197	17.141	90.066		52.23
3397	СВ	PHE				53.621	15.682	89.718	1.00	
3398	CG	PHE				53.400		88.275	1.00	52.20
3399	CD1	PHE				52.102	15.265	87.761	1.00	
3400	CE1	PHE				51.857	14.993	86.368		57.33
3401	CZ	PHE				52.972	14.849	85.527		57.10
3402	CE2	PHE				54.271	14.956	86.076	1.00	51.98
3403	CD2	PHE				54.461	15.189	87.425	1.00	50.42
3404	С			794		53.311	17.374	91.542		50.46
		·			•					

A	В	С	D	E		F	G	Н	I	J
3405	-	PHE	В	794		54.347	17.425	92.050	1 00	51.33
3406	Ν.			795		52.221	17.321	92.249		49.78
3407	CA	THR		795		52.232		93.561		47.81
3408	CB	THR		795		52.007	19.294	93.227		48.89
3409	OG1	THR		795		53.044	20.092	93.792		53.29
3410	CG2	THR		795		50.667	19.849			46.81
3411	C	THR		795		50.983	17.224	94.222		46.44
3412	0	THR		795		50.005		93.564		45.65
3413	N	SER		796		50.946	17.050	95.504		42.66
3414	CA	SER		796		49.646	16.708	95.943		42.64
3415	CB	SER		796		49.536	16.690	97.500		42.15
3416	OG	SER		796		50.321	15.565	97.792		41.91
3417	C	SER		796		48.526		95.328		41.72
3418	o	SER		796		47.377	17.048	95.157		41.30
3419		ALA		797		48.784	18.819	95.079		40.89
3420	CA	ALA		797		47.663	19.681	94.615		40.50
3421	CB	ALA		797		48.022	21.114	94.671		39.74
3422	C	ALA		797		47.280	19.305	93.173	1.00	
3423	0 -	ALA		797		46.128	19.595	92.751		38.84
3424	N	SER		798		48.263	18.720	92.489		34.53
3425	CA:	SER		798		48.225	18.096	91.130		37.20
3426	СВ	SER		798		49.628	17.544	91.024		36.03
3427	OG			798		50.147	17.397	89.784		39.62
3428	Ċ	SER		798		47.230	16.905	91.257		37.26
3429	0	SER		798		46.155	16.860	90.659		39.61
3430	N	ASP		799		47.482	16.037	92.210		38.19
3431	CA					46.573	14.920	92.473		37.01
3432	CB	ASP	В	799		47.107		93.579		35.52
3433	ĊĠ	ASP		799		48.139	13.180	93.147		34.06
3434			В	799		48.373	13.014	91.930		35.46
3435			В	799		48.888	12.613	93.969		38.80
3436	С	ASP		799		45.199	15.458	92.855		35.89
3437	0			799		44.175	14.779	92.609		37.05
3438	N	VAL	В	800		45.142	16.620	93.477		35.26
3439	CA	VAL	В	800		43.822	17.145	93.947		32.94
3440	CB.	VAL	В	800		43.940	18.266	95.019		34.11
3441	CG1	VAL	В	800		42.646	19,149	95.117	1.00	22.48
3442	CG2	VAL	₿	800		44.469	17.699	96.515	1.00	28.48
3443	. C	VAL	В	800		42.950	17:561	92.768	1.00	34.34
3444	0	VAL	В	800		41.709	17.445	92.760	1.00	35.47
3445	N	TRP	В	801		43.636	18.049	91.764	1.00	34.34
3446	CA	TRP	В	801		43.044	18.275	90.477	1.00	35.48
3447	CB	TRP	В	801		44.091	18.901	89.507	1.00	35.00
3448	CG	TRP	В	801	•	43.459	19.177	88.157	1.00	40.40
3449						43.141	18.226	87.174		38.90
3450		TRP				42.553	18.884	86.133		39.62
3451		TRP				42.424	20.212	86.419		34.39
3452		TRP				43.007	20.444	87.642		34.20
3453		TRP				43.005	21.746	88.138		38.91
3454		TRP				42.445	22.736			36.57
3455		TRP				41.952	22.492	86.152		36.98
3456	CZ2	TRP	В	801		41.885	21.221	85.652	1.00	38.72

	A	В	C	D	E		F	G	Н	I	J
	3457	C	TRP	В	801	 -	42.351	16.959	89.962	1.00	33.13
•	3458	0	TRP	В	801		41.094	16.871	89.763		32.82
	3459	N	SER				43.167	15.932	89.804		33.07
	3460	CA	-	-	802		42.670	14.644	89.377		30.99
	3461	CB	SER				43.764	13.696	89.596		32.92
	3462	OG	ŞER.				44.915	13.966	88.873		25.93
	3463	C	SER				41.511	14.199			32.70
	3464	0	SER				40.470		89.697		33.27
	3465	N	PHE				41.612		91.467		
	3466	CA	PHE				40.592	14.494	92.333		
	3467	CB	PHE		•		40.976	14.324	93.828		
	3468	CG	PHE				39.873	14.000	94.769		27.73
	3469.	CD1	PHE				39.025	15.007	95.261		29.18
	3470		PHE				38.016	14.683			23.67
	3471	CZ									32.92
			PHE				37.764		96.514		31.89
	3472		PHE				38.619	12,258	95.929		28.18
	3473 3474		PHE				39.656	12.633	95.129		30.46
		C			803		39.283	14.713	92.014		29.62
	3475	0			803		38.185	14.221	92.288		29.50
	3476	Ň	GLY				39.385	15.925	91.508		31.66
	3477		GLY				38.192		91.178		32.09.
	3478	C	GLY				37.595	15.997	89.930		31.91
	3479	0	GLY				36.344	15.792	89.811		32.78
	3480	N	ILE				38.471	15.468	89.086		31.21
	3481	CA	ILE				37.922	14.809	87.937		30.79
	3482	CB	ILĘ				39.019	14.336	86.958		31.83
	3483		ILE				39.901	15.503	86.501		29.56
	3484		ILE				39.060		85.638		28.04
	3485	CG2	ILE				38.273	13.590	85.789	1.00	
	3486				805		37.187	13.531	88.399		30.39
	3487	0 .	ILE				36.137	13.167	87.862		30.88
	3488	N	VAL				37.856	12.771	89.253		30.81
	3489	CA	VAL				37.335	11.519	89.853		28.37
	3490	CB	VAL				38.295	10.897	90.978		29.63
	3491		VAL				37.674		91.601		21.00
	3492	-	VAL				39.518	10.536	90.425		22.65
	3493	C	VAL				36.055	11.924	90.505		29.32
	3494	Q	VAL				35.066		90:312		32.00
	3495	-	MET				36.006	12.981			28.61
	3496	CA	MET				34.635	13.320	91.782		30.01
	3497	CB	MET				34.544	14.686	92.556		27.73
	3498	CG	MET				35.490	14.830	93.746		29.47
	3499	SD	MET			:	35.350	16.540	94.517		35.02
	3500	CE	MET				33.929	16.536	95.089		33.26
	3501	С	MET				33.615	13.403	90.606		30.22
	3502	0	MET				32.442	13.037	90.717		30.29
	3503	N	TRP				34.040	13.980	89.473		31.44
	3504	CA,	TRP		-		33.026	14.215	88.453		28.58
	3505	CB	TRP				33.626	15.123	87.374		30.92
	3506	CG	TRP				32.681	15.593	86.292		26.01
	3507		TRP				31.826	16.670	86.368		25.96
	3508	NE1	TRP	В	808		31.178	16.794	85.186	1.00	34.62

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	A	В	С	D	E	F	G	. Н	I	J
	3509	CE2	TRP	В	808	31.566	15.779	84.355	1.00	32.11
	3510		TRP			32.468		85.061		28.97
	3511	CE3	TRP			33.064	13.909	84.398		28.52
	3512	CZ3	TRP		-	32.709	13.687	83.032		32.24
	3513		TRP			31.725	14.446	82.425		35.24
	3514	CZ2	TRP		808	31.185	15.521	83.050		31.09
	3515	C		В	808	32.712	12.873	87.869		28.00
	3516	0	TRP	В	808	 31.577	12.568	87.668		31.29
	3517	N	GLU	В	809	33.684		87.650		27.30
	3518	ÇA -	GLU	·B	809	 33.330	10.714	87.110		28.51
	3519	СВ			809	34.555	9.884	86.910		30.85
	3520	CG	GLU	В	809	35,617	10.432	86.024	1.00	25.12
	3521	CD	GLU	В	809	36.813	9.571	86.014	1.00	28.19
	3522	OE1	GLU	В	809	36.849	8.704	85.133	1.00	32.40
	3523	OE2	GLU	В	809	37.778	9.798	86.791	1.00	31.60
	3524	Ç	GĻU	В	809	32.435	9.919	88.019	1.00	30.07
	3525	0	GLU	В	809	31.575	9.111	87.555	1.00	33.66
	3526	N	VAL	В	810	32.507	10.201	89.289		30.06
•	3527	CA	VAL		810	31.716	9.434	90.205		29.76
	3528	$CB_{j}$	VAL		810	32.255	9.428	91.665		30.24
	3529		VAL		810	31.095	9.097	92.609		24.88
	3530		VAL			33.391	8.481	91.834		25.13
	3531		VAĻ			30.346	10.058	90.287		30.62
	3532	O	VAL			29.381	9.349	90.313		27.09
	3533	N-	MET			30.247	11.393	90.308		32.39
	3534	CA	MET			28.889	11.928	90.411		34.71
	3535	CB	MET			28.900	13.402	90.899		35.87
	3536	CG	MET			29.590	13.624	92.224		38.06
	3537	SD	MET		811	28.965	12.583	93.435		43.12
	3538 3539	CE C	MET MET		811 811	27.111 28.162	12.868 11.746	93.575 89.043		35.71 33.74
	3540	0	MET		811	27.022	11.740	88.905		36.24
	3541	N	THR		812	28.845	11.231	88.066		35.66
	3542	CA	THR		812	28.304	11.132	86.752		35.64
	3543	CB	-		812	29,319	11.867	85.953		37.45
	3544	OG1	THR			28.697	12.834	85.169		38.86
	3545	CG2	THR			30.251	11.113	85.174		23.27
	3546	С			812	28.173	9.753	86.352		37.54
	3547	0	THR			27.786	9.432	85.230		38.76
	3548	N	TYR			28.448				37.57
	3549	CA			813	28.363		86.943		34.78
	3550	CB.	TYR	B	813	26:962		86.721		34.82
	3551	CĢ	TYR	В	813	26.132	6.832	88.076	1.00	34.63
	3552	CD1	TYR	В	813	25.269	7.812	88.444	1.00	29.08
	3553	CE1	TYR	В	813	24.637	7.762	89.559	1.00	29.89
	3554	CZ			813	24.749	6.694	90.445		35.16
	3555	OH	TYR			23.994	6.732	91.691		33.13
	3556		TYR			25.605	5.638	90.112		31.34
	3557	CD2				26.330	5.766	88.953		30.20
	3558	C			813	29.301	6.978	85.923		34.15
	3559	0 .			813		6.116			35.41
	3560	N	GLY	В	814	30.513	7.539	85.891	1.00	33.63

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Α	В	С	D	E		F	G	<u>H</u>	I	J
3561	CA	GLŸ	В	814		31.485	6.912	85.013	1.00	33.04
3562	С	GLŸ				31.465	7.503	83.656	1.00	33.66
3563	0	GLY	В	814		31.929	6.919	82.671		29.15
3564	N	GLU	В	815	•	30.913	8.688	83.576		34.73
3565	ÇA	GLU	В	815		31.053	9.319	82.301		37.09
3566	CB	GLU	В	815		30.177	10.491	82.237	1.00	38.02
3567	CG .	GLU	В	815		30.303	11.378	80.999	1.00	
3568	CD.	GLU		815		29.679	10.720	79.825	1.00	
3569	OE1	GLU	В	815		30.404	10.091	79.087	1.00	37.45
3570	QE2	GĻŲ	В	815		28.456	10.675	79.743		43.36
3571	С	ĢĻU	В	815		32.498	9.735	82.095	1.00	38.19
3572	0	GLU	В	815		33.212	10.124	83.020	1.00	
3573	Ň	ARG	В	816		32.930	9.543	80.863	1.00	
3574	CA	ARG	В	816		 34.213	. 9.930	80.391	1.00	38.78
3575	CB ·	ARG	₿	816		34.352	9.446	78.966	1.00	38.98
3576	СĢ	ARG	В	816		35.424	10.059	78.162	1.00	42.28
3577	CD	ARG	В	816		36.087	9.017	77.341	1.00	52.01
3578	NE	ARĢ	В	816		37.532	9.132	77.360	1.00	54.71
3579	CZ	ARG	В	816	•	38.138	9.580	76.306	1.00	59.21
35,80	NH1	ARG	В	816		37.353	9.900	75.305	1.00	68.31
3581	NH2	ARG	В	816	•	39.446	9.779	76.226	1.00	56.49
3582	C	ARG	В	816		34.381	11.410	80.467	1.00	38.72
3583	0	ARG	В	816		33.687	12.139	79.791	1.00	39.78
3584	N	PRO	В	817		35.330	11.824	81.298	1.00	37,40
3585	CA	PRO	В	817		35.684	13.217	81.461	1.00	37.95
3586	CB	PRO	В	817		36.997	13.136	82.256	1.00	37.05
3587	ÇG	PRO	В	817		36.763	11.888	83.183	1.00	38.15
3588	ÇD	PRO	В	817		36.171	10.927	82.136	1.00	38.41
3589	Ç	PRO				35.788	13.947	80.089	1.00	38.69
3590	0	PRO		817		36.495	13.433	79.252		36.60
3591	N	TÝR		818		35.057	15.066	79.844		38.82
3592	CA	TYR		818		35.210	15.759	78.539		39.23
3593	CB	TYR		818		36.663	16.068	78.236		38.09
3594	CG	TYR		818		37.266	16.821	79.315		39.70
3595	CD1	TYR				36.909	18.157	79.532		34.79
3596	CE1	TYR		818		37.443	18.905	80.645		34.86
3597	CZ	TYR	•	818		38.325	18.209	81.532		
3598	ÒН	TYR		818		38.860	18.893	82.603		39.95
3599	CE2	TYR				38.653	16.824	81.335		33.51
3600	CD2	TYR				38.098	16.158	80.229		36.26
	. C			818		34.667	14.938	77.424		38.80
3602	0			818		34.928	15.202	76.270		39.89
3603	N	TRP				33.846	13.989	77.763		38.70
3604		TRP				33.188	13.270	76.700		39.85
3605	ÇB	TRP				·32.069		76.151		3803
3.606 3.607	CG CD1	TRP				31.456	14.694	77.287		36.05
3607 3608	CD1 NE1	TRP TRP				30.606 30.225	14.112 14.945	78.042		30.08
3609				819		30.225	14.945	79.039 78.851		25.80 30.10
3610	CD2	TRP				31.604	16.169	78.851		36.77
3611	CE3	TRP				32.310	17.173	77.346		33.18
3612	CZ3	TRP		*		32.236	18.266	77.946		31.31
5014	C23	11/1	_			52.250	10.200	,,,,,,	1.00	

A	В	C D	E		F	G	H <sub>.</sub>	I	J
3613	CH2	TRP B	819		31.410	18.424	79.081	1.00	35.76
3614	CZ2	TRP B	819		30.670	17.374	79.552	1.00	36.26
3615	Ċ	TRP B	819		34.172	12.981	75.636	1.00	39.50
3616	O	TRP B	819		35.257	12.601	75,950	1.00	
3617	N	GLU B	820		33.837	13.251	74.389	1.00	39.99
3618	CA	GLU B	820		34.742	12.918	73.254		40.61
3619	CB	GLU B	820		33.941	12.178	72.114		41.25
3620	CG	GLU B	820		33.263	10.859	72.529	1.00	40.27
3621	CD	GLU B	820		32.030	11.030	73.446	1.00	45.99
3622	OE1	GLU B	820		31.875	10.407	74.529	1.00	48.82
3623		GLU B			31.163	11.766	73.086	1.00	36.20
3624	С	GLŲ B			35.708		72.749	1.00	
3625	0	GLU B	820		36.216	13.972	71.706	1.00	39.30
3626	N .	LEU B	821		35.944	15.037		1.00	
3627	CA	LEU B	821		36.969	16.002	73.125	1.00	
3628	CB.	LEU B				16.973	74.283	1.00	45.63
3629	CG	LEU B			36.273	18.189	74.253	1.00	50.25
3630	CD1	LEU B	821		34.848	17.908	73.740	1.00	53.81
3631	CD2	LEU B	821		36.254	18.988	75.530	1.00	46,51
3632	C =	LEU B	821	é	38.234	15.199	72.892	1.00	45.45
3633	O	LEU B	821 822	• *	38.302	14.137	73.411	1.00	
3634	N	SER B			39.183	15.665	72.097	1.00	45.03
3635 3636	CA CB	SER B			40.462 41.264	14.994 15.426	71.975	1.00	47.64 47.83
3637	OG	SER B			41.264	16.836	70.738		44.19
3638	C	SER B			41.291	15,448	73.115	1.00	
3639	0 .	SER B	,		40.974	16.431	73.769	1.00	
3640	N	ASN B		:	42.405	14.776	73.763	1.00	
	· CA	ASN B			43.325	15.385	74.319		53.14
3642	СВ				44.484	14.436	74.614	1.00	53.45
3643	CG				43.996	13.177	75.311	1.00	57.25
3644	OD1	ASN B	823		42.979	13.236	76.090	1.00	56.44
3645	ND2	ASN B			44.642	12.035	75.027	1.00	50.82
3646	C.	ASN B	823		43,669	16.895	74.071	1.00	52.98
3647	0	ASN B	823	,	43.354	17.756	74.937	1.00	53.13
3648	N	HIS B			44.132	17.237	72.858	1.00	54.65
3649	CA	HIS B		-	44.478	18.636	72.459	1.00	54.79
3650	СВ	HIS B			45.032	18.740	70.973	1.00	58.59
3651·	CG	HIS B			44.129	19.419	69.940		67.70
3652		HIS B			43.609	20.705	70.072		73.79
3653		HIS B			42.888	21.017	69.000		75.94
3654		HIS B			42.761	20.940	69.073		
3.655		HIS B			42.935	19.999	68.157		76.47
3656		HIS B			43.718	18.994	68.703		75.66
3657	C	HIS B			43.306	19.509	72.778		52.56
3658	O	HIS B			43.424	20.588	73.463		49.91
3659	N	GLU B			42.128	19.027	72.387		50.66
3660 3661	CA CB	GLU B			40.942	19.831 19.255	72.718 72.086		50.31 52.70
3662	CG	GLU B			39.699 39.956	18.712	70.695		55.19
3663	CD	GLU B			38.704	18.188	70.095		60.55
3664	OE1				38.480	16.987	70.003		63.97
2004	OHI	CLU D	رين	-	20.400	10.707	10.221		55.51

A	В	C	D	E			F	· G · ;	Н	I	J
3665	OE2	GLU	В	825			37.946	18.964	69.435	1.00	63.96
3666	С	GLU					40.747	20.079	74.206		
3667	0	GLU				٠.	40.538	21.250	74.669		48.88
3668	N	VAL					40.903	19.012	74.976		47.68
3669	CA	VAL	В	826			40.825	19.160	76.439		
3670	CB	VAL					41.173	17.756	77,124		
3671	CG1	VĄL	В	826			41.421	17.900	78.686		
3672	CG2	VAL	В	826			40.130	16.592	76.663		38.86
3673	С	VAL	В	826			41.762	20.239	76.958	1,00	46.74
3674	0	VAL	В	826			41.363	21.236	77.65	1.00	46.61
3675	N	MET	В	827			43.023	20.076	76.582	1.00	47.29
3676	CA	MET	В	827			44.025	21.031	77:016	5 - 1.00	48.46
3677	CB '	MET	В	827			45.429	20.635	76.593	1.00	49.16
3678	CG.	MET	В	82,7.			46.036	19.261	77.139		48.31
3679	SD	MET	В	827			47.464	18.772	76.174		56,19
3680	CE	MET					48.223	20.801	76.241	1.00	53.80
3681	<b>C</b> , ;						43.641	22.449	76.548		50.31
3682	Q	MET	В	827			43.675	23.355	77.381	1.00	51.02
3683	N	ALiA	В	828			43.175	22.647	75.280		50.45
3684	CA	ALA		828			42.812	23.992	74.874	1.00	48.64
3685	CB	AĻA	B	828			42.467	24.087	73,404	1.00	49.40
3686	С	ALA			•		41.656	24.425	75.727	7 1.00	47.69
3687	0	ALA		828			41.688	25.516	76:302	1.00	45.93
3688	N	ALA					40.622	23.600	75.859	1.00	48.34
3689	CA	ΑĻΑ	В	829			39.500	24.095	76.706	1.00	49.28
3690	CB	ALA					38.454	23.025	76.877	7 1.00	48.53
3691	C	ALA					39.974	24.564	78.107	7 1.00	50.69
3692	0	ALA	В	829			39.428		78.706	1.00	52.39
3693	N	İLE		830			40.902	23.804	78.674		51.92
3694	CA	ILE		830			41.427	24.108	79.998		54.05
3695	CB	IĻĒ				v	42.400	22.914	80.456		54.22
3696	CG1	ILE		830			41.635	21.788	81.139		55.56
3697	CD1	ILE		830			40.775	22.243	82.301		56.62
3698	CG2	IĻE					43.521	23.378	81.390		52.02
3699	C	ILE		830			42.152	25.485	79.957		54.79
3700	0			830			41.872	26.417	80.751		54.16
3701	N	ASN				<i>i.</i>	43.068	25.588	79.006		
3702	CA	ASN					43.834	26.818	7,8.871		57.64
3703	CB	ASN					44.900	26.698	77.762		
3704	CG	ASN						25.749	78.170		
3705		ASN					46.313	25.407	79.388		
3706		ASN					46.803	25.283	77.160		
3707	C	ASN					42.869	28.013	78.776		56.48
3708	0	ASN					43.088	29.055	79.374		57.73
3709	N	ASP					41.729	27.833	78.136		
3710	CA	ASP					40.747	28.879	78.162		54.22
3711		ASP					39.824	28.726	76.982		56.03
3712	CĢ	ASP					40.475	29.240	75.659		62.62
3713		ASP					40.519	30.491	75.432		65.21
3714		ASP					41.001	28,469	74.822		63.16
3715	C	ASP					39.956	28.914	79.478	-	
3716	Q.	ASP	Þ	832			39.026	29.722	79.634	£ 1.00	49.78

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3717	N	GLY				40.258	28.009	80.431		52.62
3718	CA	GLY			٠.	39.487	28.103	81.674		52.59
3719	C	GLY				38.078	27.498	81.698		51:69
3720	0	GLY				37.252	27.863	82.546		53.45
3721	N	PHE		834		37.795		80,730	1.00	50.06
3722	CA	PHE		834		36.587	25.786	80.701	1.00	49.17
3723	CB	PHE		834		36.577	24.912	79.451	1.00	46.71
3724	CG.	PHE				35.397		79.392	1.00	49.59
3725	CD1	PHE				35.538	22.592	79.676	1.00	48.43
3726	CE1	PHE					21.720	79.632		49.88
3727	СZ	PHE				33.226	22,210	79.315	1.00	47.84
3728	CE2	PHË				33.106	23.517	78.977	1.00	49.60
3729	CD2	PHE				34.149	24.351	78.999	1.00	49.93
3730	Ç.	PHE				36.831	24.753	81.816	1.00	47.10
3731	0	PHE				37.960	24.368	82.076	1.00	46.20
3732	N	ARG				35.745	24.346	82.462		43.32
3733	CA	ARG		835		35.681	23.378	83.528	1.00	41.36
3734	CB	ARG		835		35.414	23.993	84.921	1.00	40.95
3735	CG	ARG				36.467	24.942	85.518	1.00	39.62
3736	$_{ m CD}$	ARG				37.837	24.358	85.418	1.00	38.69
3737	NĒ	ARG			· .	38.881	25.042	86.088	1.00	44.32
3738	CZ	ARG.				39.934	25.489	85.438		50.44
3739	NH1	ARG	В	835.		40.938	26.049	86.127	1.00	43.02
3740	NH2	ARG	В	835		39.981	25.329	84.088		44.62
3741	Ċ	ARG	В	835		34.440	22.546	83.165	1.00	40,49
3742	0	ARG		835		33,483	23.057	82.604	1.00	41.54
3743	N	LEU	В	836		34.469	21.271	83.482	1.00	37.93
3744	CA	LEU-			-	33.425	20.396	83.233	1.00	36.15
3745	CB	LEU	В	836	٠.	33.838	18.994	83.815	1.00	37.66
3746	CG	LEU	В	836		35.116	18 323	83.267	1.00	35.29
3747	CD1	LEU				35.499	17.005	83.929	1.00	33.23
3748	CD2	LEU				34.7.89	18.074	81.815	1.00	38.91
3749	C	LEU				32.232	20.956	83.981	1.00	36.97
3750	O	LEU				32.432	21.572	85.028	1.00	36.64
3751	N	PRO				30.999	20.719	83.525	1.00	34.28
3752	CA	PRO				29.824	21.275	84.187	1.00	34.92
3753	ĊВ	PRO		837		28.789	21.273	83.072	1.00	34.34
3754	CG	PRO	В	837		29.449	20.600	81.871	1.00	39.22
3755	CD	PRO				30.650	19.919	82.344		35.63
3756	С	PRO				29.206	20.394	85.301		36.66
3757	0	PRO	В	837		29.462	19.205	85.411		34.31
3758	Ņ	THR				28.308	20.910	86.081	1.00	37.44
3759	CA	THR				27.996	20.063	87.170	1.00	41.30
3760	ĊВ	ŢHR				27.125	20.677	88.173	1.00	42.22
3761	OG1	THR				26.152	19.670	88.570	1.00	45.09
3762	CG2	THR				26.224	21.773	87.502	1.00	44.87
3763	С	THR				27.248	18.908	86.572		43.03
3764	о <sub>.</sub> .	THR				26.534	19.021	85.578	1.00	44.86
3765	N	PRO				27.366	17.803	87.218		41.53
3766	CA	PRO				26.726	16.604	86.740		43.52
3767	CB	PRO				27,395	15.497	87.609		40.76
3768	CG ·	PRO	В	839		28.609	16.173	88.078	1.00	42.05

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3769	CD	PRO	В	839		28.056	17.580	88.467	1.00	42.30
3770	C.	PRO	В	839		25.278	16,789	87.071	1.00	
3771	0	PRO	В	839		24.955	17.610	87.915	1.00	
3772	N	ALA	В	840		24.416	16.004	86.466	1.00	
3773	CA	ALA	В	840		22.989	16.149	86.701	1.00	46.30
3774	CB	ALA	В	840		22.229	15.193	85.735	1.00	
3775	С	ALA	В	840		22.791	15.690	88.100	1.00	47.32
3776	0	ALA	В	840		23.359	14.659	88.452	1.00	48.03
3777	N	ASP	В	841		21.963	16.400	88.859	1.00	47.66
3778	CA	ASP.	В	841		21.685	16.142	90.292	1.00	48.16
3779	CB	ASP	В	841			14.837	90.420	1.00	50,16
3780	CG	ASP	В	841		19.492	14.998	89.877	1.00	56.15
3781	OD1	ASP	В	841		18.696	13.990	89.914	1.00	57.77
3782	OD2	ASP	В	841		19.120		89.372	1.00	56.22 <sup>.</sup>
3783	C	ASP		841		22.863	16.166	91.204	1.00	47.22
3784	0	ASP		841		22.887		92.244		48.47
3785	. N	CYS	В	842		23.875	16.886		1,00	45.42
3786	CA			842		24.882	16.890	91.830	1.00	42.29
3787	CB			842		26.202	17.117	91.137		42.38
3788	SG			842		27.632	17.081	92.149		39.32
3789	C .	CYS	В	842		24.617	17.957	92.802		43.32
3790	0	CYS		842	·	24.280	19.092	92.452		45.03
3791	Ν.	PRO	В	843		24.714	17.602	94.064	1.00	43.72
3792	CA ·	PRO	В	843		24.628	18.589	95.111	1.00	42.14
3793	CB .	PŖO	В	843		24.991	17.794	96.325	1.00	44.83
3794	CG	PRO	В	843		24.594	16.246	95.888	1.00	42.62
3795	CD	PRO		843		24.689	16.198	94.536	1.00	40.73
3796	C	PRO	В	843		25.658	. 19.593	94.858	1.00	42:60
3797	0	PRO	В	843		26.804	19.223	94.460	1.00	43.32
3798	N	SER				25.288	20.847	95.134	1.00	
3799	CA	SER		844		26.138	22.019	94.922		41.10
3800	CB	SER		844	1	25.378	23.281	95.359	1.00	45.78
3801	OG	SER		844		24.007	22.921	95.667	1.00	
3802	C.	SĘR		844		27.363	22.044	95.753	1.00	39.64
3803	0			844		28.384	22.625	95.348	1.00	40.26
3804	N	ALA				27.313	21.508	96.965	1.00	37.83
3805	CA	·ALA				28.582	21.420	97.650	1.00	36.40
3806	CB	ALA				28.347	21.151	99.043	1.00	39.16
3807	C	ALA				29.485	20.414	97.041		36.50
3808	0	ALA				30.717	20.568	96.981		40.92
3809	N			846		28.983	19.393	96.448		37.49
3810	CA			846		29.931	18.505	95.824		38.19
3811	CB			846		29.123	17.228	95.389		38.40
3812	CG1	ILE				28.802	16.375	96.633		41.00
3813	CD1			846		30.056	16.440	97.794		34.53
3814	CG2	ILE				29.935	16.381	94.424		38.32
3815	C			846		30.488	19.261	94.613		39.49
3816	O N			846		- '	19.363	94.292		37.89
3817	N			847		29.540	19.759	93.833		42.21
3818	CA	TYR				30.006	20.529	92.653		42.74
3819	CB	TYR				28.846	21.081	91.802		43.60
3820	ÇG	TYR	₽	O# /		29.434	21.686	90.506	1.00	46.75

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3821	CD1	TYR B	847		29.238	23.035	90.142	1.00	40.15
3822	CE1	TYR B	847		29.804	23.528	88.926	1.00	48.32
3823	CZ	TYR B	847		30.561	22.684	88.120	1.00	44.77
3824	OН	TYR B	847	ev.	31.151	23.079	86.988	1.00	40.40
3825	CE2	TYR B	847		30.776	21:358	88.509	1,00	44.70
3826	CD2	TYR B	847		30.234	20.893	89.685	1.00	47.08
3827	С	TYR B	847		30.858		93.143	1.00	40.26
3828	0	TYR B	847		31.963	21.877	92.659	1.00	40.34
3829	N .	GLN B	848		30.451	22.340	94.207	1.00	41.30
3830	CA	GLN B	848		31.418		94.664	1.00	43.37
3831	CB	GLN .B			30.823		95.701	1.00	45.07
3832	CG	GLN B	848	•	31.676	25.537	96.106	1.00	51.95
3833.	CD	GLN B	848		31.283	26.899	95.372	1.00	63.54
3834	OE1	GLN B	848	1	30.417	26.923	94.412	1.00	64.88
3835	NE2	GLN B	848	*	31.976	28.042	95.806	1.00	60.42
3836	C	GLN B	848		32.850	22.934	94.967	1.00	41.04
3837	O .	GLN B	848		33.897	23.527	94.527	1.00	41.33
.3838	N	ĻEU B	849		32.915	21.786	95.608	1.00	38.01
3839	CA	LEU B	849		34.208	21.204	95.905	1.00	35.47
3840	CB	LEU B	849		33.889	20.040	96.868	1.00	36.49
3841	ÇG	LEU B	849		35.120	19.349	97.222	1.00	36,62
3842	CD1	LEU B	849		36.078	20.393	97.866	1.00	32.52
3843	CD2	LEU B	849		34.708	18.241	98.241	1.00	
3844	C	LEU B	849		34.946	20.716	94.708.	1.00	35.06
3845	0 -	LEU ·B	849		36.200	20.891	94.564	1.00	34.28
3846	N .	MET B	1850		34.223	20.003	93.821	1.00	35.02
3847	CA	MET B	850		34.861	19.681	92.512	1.00	36.09
3848	CB	MET B	850		33.703	19.134	91.632	1.00	37.35
3849	CG	MET B	850		33.905	18.476	90.380	1.00	32.97
3850	SD	MET B	850		32.372	17.871	89.923		36.02
3851	CE	MET B			31.755	17.245	91.136	1.00	32.09
3852	$\mathbf{C}_{a}$	MET B			35.487	21.062	92.000	1.00	36.72
3853	0	MET B			36.645	21.219	91.693		38.32
3854	N	MET B			34.747	22.126	91.975	1.00	37.60
3855	CA	MET B			35.408	23.296	91.429	1.00	38.96
3856	CB	MET B			34.424	24.425	91.381	1.00	38.34
3857	CG	MET B			33.322	24.168	90.395	1.00	38.17
3858	SD	MET B			33.760.	24.269	88.645	1.00	45.90
3859	CE	MET B			34.669	25.672	88.676		46.07
3860	C	MET B			36.688	23.732	92.181		41.53
3861	0	MET B			37.765	24.106			43.20
3862	N	GLN B			36.617	23.715	93.495		38.35
3863	CA	GLN B			37.772	24.172	94.206		39.33
3864	CB	GLN B			37.474	24.264	95.703		42.34
3865	CG	GLN B			36.356	25.195	96.036		45.28
3866	CD OE1	GLN B			35.754	24.863	97.391		62.60
3867		GLN B			34.797	25.545	97.871		.68.59
3868	NE2	GLN B			36.292	23.806	98.030		69.44
3869	C				38.834	23.236	93.879		40.26
3870	O	GLN B		•	39.939	23.631	93.706		41.90
3871	N N	CYS B			38.590	21.960	93.648		40.71
3872	CA	CYS B	000		39.835	21.254	93.263	1.00	39.23

A	В	С	D	E			F	G	Н	I	J
3873	СВ	ÇYS	B	853			39.782	19.711	93.273	1.00	39.20
3874	SG	ÇYS		-			38.918	18.954	94.690		40.47
3875	C	CYS		853			40.318	21.686	91.913		40.72
3876	0	CYS		853			41.421	21.347	91.564	1.00	38.66
3877	N	TRP		854			39.519	22.366	91.092	1.00	41.68
3878	CA	TRP		854			40.111	22.647	89.772	1.00	44.18
3879	СВ	TRP	Ŗ	854			39.031	22.457	88.667		44.45
3880	CG	TRP		854			38.618	21.114	88.501	1.00	41.82
3881	CD1	TRP	В	854			39368	19.980	88.704	1.00	41.87
3882	NE1	TRP	В	854			38.602	18.866	88.449	1.00	35.93
3883	CE2	TRP	В	854			37.352	19.263	88.140	1.00	32.47
3884	CD2	TRP	В	854			37.333	20.687	88.167	1.00	38.06
3885.	CE3	TRP	В	854			36.138	21.359	87.897	1.00	32.76
3886	CZ3	TRP	В	854			35.127	20.665	87.536	1.00	29.91
3887		TRP					3.5.159		87.528	1.00	36.45
3888.	CZ2						36.282	18.524	87.789	1.00	32.15
3889	, C .	TRP				-	40.722	24.083	89.583		45.26
3890	0	TRP		854			41.080	24.493	88.441		43.51
3891	N	GLN					40.727	24.844	90.675		45.68
3892	CA	GLN					41.226	26.182	90.651		46.55
3893	CB	GLN		855			41.379	26.724	92.049		48.28
3894	CG			855			40.053	26.999	92.625		50.56
3895	CD			855			40.145	28.208	93.423		60.72
3896		GLN					40.024	28.135	94.670	1.00	
3897	NE2	GLN		855			40.408	29.384	92.729	1.00	
3898	С	GLN		855			42.519	26.130	90.037	1.00	45.75
3899	O	GLN		855			43.278	25.307	90.342	1.00	42.80
3900 3901	N CA	GLN GLN		856 856			42.710 43.924	27.051 27.243	89.106 88.368	1.00	47.78 47.38
3902	CB	GLN		856			43.729	28.485	87.470	-	49.87
3903	CG	GLN		856			44.834	28.698	86.488	1.00	49.20
3904	CD	GLN		856			44.839	27.597	85.453	1.00	59.89
3905	OE1	GLN		856			43.788	26.947	85.185		61.37
3906	NE2	GLN		856			46.017	27.356	84.866	1.00	60.84
3907	С			856			45.065	27.456	89.331	1.00	46.71
3908	0	GLN		856			46.106	26.883	89.154		44.54
3909	N	GLU		857			44.892	28.308	90.331	1,00	48.11
3910	CA	GLU	В				45.984	28.408	91.341		51.65
3911	CB	GLU	В	857			45.768	29.578	92.387	1.00	52.14
3912	CG	GLŲ	В	857			46.166	30.915	91.710		62.33
3913	CD	GLU	В	857			45.832	32.252	92.398	-1.00	71.26
-3914	OE1	GLU	В	857			45.616	32.369	93.641	1.00	76.69
3915	OE2	GLŲ	В	857			45.828	33.239	91.631	1.00	75.04
3916	C	ĢLU	В	857			46.160	27.138	92.117	1.00	49.78
3917	0			857			45.368	26.874	93.003	1.00	
3918	N			858	-		47.167	26.345	91.823	1.00	48.84
3919		ARG					47.332	25.179	92.679	1.00	48.89
3920	CB			858			48.631	24.421	92.402	1.00	48.75
3921	CG			858			49.933	24.995	92.988	1.00	46.77
3922	CD			.858			51.166	24.444	92.169	1.00	
3923	NE			858			52.374	24.183	92.946		66.77
3924	CZ	AKG	Ŗ	858			53.580	24.706	92.706	1.00	70.86

A	В	C.	D	E			F	G		Н	I,	J
3925	NH1	ARG	R	858			53.804	25.51	9.	91.672	1.00	68.19
3926		ARG		858			54.588	24.37		93,510	1.00	75.23
3927	C	ARG		858			47.192	25.45		94.211	1.00	
3928	Ō	ARG		858			46.606	24.64		94.922	1.00	
3929	N -	ALA		859			47.743	26.58		94.704	1.00	49.56
3930	CA .	ALA		859			47.766	26.77		96.131	1.00	
3931	CB	ALA		859		, .	48.584			96.533	1.00	49.75
3932	C	ALA		859			46.364	26.87		96.691	1.00	51.56
3933	Ö			859			46.123	26.66		97.946	1.00	
3934	N	ALA					45.410			95.789		
3935	CA			860			44.084	27.36				47.89
3936	*	ALA		860							1.00	
3937		ALA					43.377			95.576	1.00	48.07
3938	С			860			43.240	26.13		96.356	1.00	
	O			860			42.064	26.18				43.79
3939	N	ARG		861			43.808	25.04		95.824		45.18
3940	CA	ARG					43.069	23.74		95.850		45.03
3941	CB .	ARG		861			43.616	22.67		94.889		45.11
3942	ÇG	ARG		861			43.572			93.351		46.90
3943	CD	ARG		861	• .		44.345	22.26		92.433		44.77
3944	NE			861			44.743	22.97		91.264		38.07
3945	CZ			861			45.809	22.71		90.575		41.87
3946		ARG			·	•	46.592	21.70		90.905	1.00	38.56
3947	NH2	ARG					46:150	23.52		89,537		43.27
3948	C			861			43.130	23.30			1.00	
3949	0			-861			44.103	23.62		98.032	1.00	44.45
3950	N			862			42.026	22.69		97.660		43.87
3951	CA			862			41.895	22.19		98.984		43.84
3952	CB.			862			40.554			98.980	1.00	44.25
3953	CG			862			39.896	21.84		97.717		41.03
3954	CD	PRO		862			40.829	22.47		96.845	1.00	
3955	С	PRO		862		٠.	42.931	21.18		99.086	1.00	43.12
3956	0		В	862			43.244	20.57		98.142	1.00	42.37
3957	N		В	863						100.274	1.00	43.78
3958	CA			863			44.308			100.517	1.00	•
3959	CB			863			45.168			101.764		44.71
3960	CG	LYS		863	,		46.523			101.339		51.54
3961	CD		В	863	-		46.460			100.652	1.00	
3962	CE ·	LYS		863			47.864	22.69				61.29
3963	NZ	LYS					49.033	21.66				67.02
3964		LYS					43.545			100.706		39.71
3965	0			863			42.327			101.170		
3966	N			864			44.230			100,460		36.76
3967		PHE					43.420			100.759	1.00	38.90
3968	CB	PHE-		864			44.140	14.81		100.429		37.94
3969	CG	PHE		864			44.178	14.52		98.922		33.91
3970	CD1	PHE					45.375	14.53		98.233		29.69
	CE1						45.459	14.31		96.835		34.24
3972	CZ			864	٠,		44.247	14.05		96.097		34.64
3973	CE2	PHE					43.040	14.03		96.796		34.40
3974	CD2			864			43.011	14.28		98.235		33.00
3975	С			864			42.796	16.09		102.134		39.31
3976	0	PHE	В	864			41.644	15.61	. 0	102.340	1.00	42.22

A	В	C <sub>a</sub>	D	Ė			F	G	+	Н		I	J
3977	Ņ	ALA	В	865		٠.	43.535	16.6	32	103.08	31	1.00	38.65
3978	CA	ALA					43.021			104.38			41.81
3979	СВ	ALA		865			44.179	16.9		105.51			42.20
3980	С	ALA	В	865			41.864			104.48			41.60
3981	O.	ALA		865			40.936			105.21		1.00	
3982	Ņ	ASP	В	866			41.882			103.84			42.39
3983	CA.	ASP	В	866			40.590	19.4	11	104.02	22	1.00	
3984	CB -	ASP	В	866			40.540	20.8	33	103.43	9	1.00	44.90
3985	CG	ASP	В	866			41.770	21.6	13	103.67	15	1.00	50.05
3986	OD1	ASP	В	866	•		42.078	21.7	70	104.88	34	1.00	55.78
3987	OD2	ASP	В	866			42.487	22.0	82	102.70	7	1.00	49.26
3988	C	ASP		866			39.398			103.35		1.00	43.11
3989	0	ASP		866			38.289			103.90		1.00	40.88
3990	N	ILE		867	·		39.687	17.9				1.00	41.48
3991	CA	ΪĻΕ		867			38.644			101.45		1.00	39.52
3992	CB	ILE		867			39.235	16.6		100.17			39.26
3993	CG1	ILE		867			39.557	17.7		99.19			37.38
3994	CD1	ILE		867			40.457	17.3		97.91			34.65
3995	CG2	ILĒ		867	•		38.265	15:6		99.52			30.26
3996	C		₿	867			38.010	16.2				1.00	
3997	0	ILE		867			36.787	16.0		102.30		1.00	37.24
3998	N		В	868			38.841			102.98		1.00	40.82
3999	CA	VAL		868	•		38.200			103.80			40.27
4000	CB	VAL		868			39.269			104.58			43.83
4001		VAL		868			38.560			105.52			38.82
4002 4003	CG2	VAL VAL		868			40.125 37.345			103.64 104.80			39.45 40.69
4003	0	VAL		868			36.193			105.00			41.29
4005	N	SER		869			37.826			105.48			41.17
4006	CA	SER		869			36.879	16.6		106.51			44.54
4007	CB			869			37.479	17.6		107.54			
4008	OG	SER		869			38.536	18.3		106.94			50.61
4009	Ċ	SER		869			35.713	17.2		105.91		1.00	
4010	0	SER		869			34.559	17.1		106.44		1.00	
4011	N		В	870			35.941	17.9		104.77			43.54
4012	CA ·		В	870			34.744	18.4		104.13			42.08
4013	CB	ΙĻΕ	В	870			34.755	19.9	50	103.30		1.00	43,22
4014	CG1	ILE	В	870			33.586	19.9	99	102.31	2	1.00	41.61
4015	CD1	ILE	В	870			33.949	19.3	65	101.17	76	1.00	41.32
4016	CG2	ILE	В	870			36.033	20.4	64	102.63	35	1.00	40.07
4017	C			870			33.864	17.3	82	103.68	32	1.00	41.89
4018	0	ILE	В	870			32.658	17.4	58	103.79	93	1.00	41.51
4019	N	LEU	В	871			34.404			103.19			42.27
4020	CA	LEU					33.374			102.86			42.82
4021	CB	LEU					33.923			101.97			40.18
4022	CG.	LEU					34.172			100.58			43,50
4023	CD1	LEU					34.974	13.6		99.84			42.97
4024	CD2	LEU					32.952	15.0		99.82			30.76
4025	C	LEU					32.699	14.6		104.11			41.38
4026	0			871			31.528			104.12			43.91
4027		ASP					33.394			105,20			41.15
4028	CA	ASP	B	8/Z			32.653	14.0	52	106.38	54	1.00	41.49

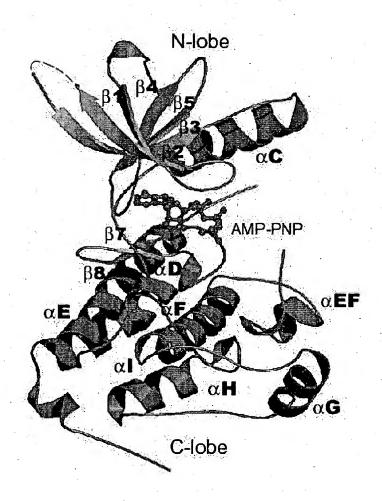
	A	В	C .	D	Ė		F	, G	H	Ĭ	J
•	4029	СВ	ASP	В	872		33,673	13.713	107.437	1.00	39.80
	4030	CG	ASP		872		34.462		107.107		45.40
	4031	OD1	ASP		872		33.894		106.424	1.00	51.78
	4032	OD2	ASP		872		35.617		107.556	1.00	52.74
	4033	C .	ASP		872		31.402		106.910		43.24
	4034	0	ASP	В	872		30.268		107.347		
	4035	N	LYS	,	873		31.557		106.813	1.00	42.48
	4036	CA			873		30.499		107.252		45.45
	4037	CB	LYS				30.925		107.369		
	4038	CG	LYS				32.038		108.362	1.00	
	4039	CD	LYS				32.946		107.986	1.00	60.03
	4040	CE	LYS.	-					109.190	1.00	
	4041	NZ	LYS				34.221			1.00	
		C	LYS				29.324		106.377	1.00	47.08
	4043		LYS				28.196		106.833		48.85
	4044	N	LEU				29.503		105.094		46.56
	4045		LEU				28.235		104.425		45.19
	4046	СВ	LEU				28.375		102.875		46.34
	4047	CG	LEU		874		29.232		102.434		48.30
	4048	CD1	LEU				29.940		101.164		45.32
	4049		LEU				28.475		102.439		51.85
	4050	C .	LEU				27.677		104.767		46.11
	4051	0			874		26.433		104.797	1.00	
	4052	N	ILE		875		28.568		104.846	1.00	
	4053	ÇA	ILE		875		28.076		105.024	1.00	
	4054	CB	ILE		875		29.276		105.013		50.00
	4055	CG1	ILE				29.557		103.630	1.00	49.38
	4056	CD1	ILE				30.973		103.455		50.85
	4057	CG2	IĻE				29.010		105.957	1.00	48.28
	4058	С	ILE				27.452		106.397	1.00	
	4059	0	ILE		875		26.435	12.478			52.10
	4060	N	ARG	B	876		28.026		107.267	1.00	
	4061	CA	AŖG				27.371		108.590		59.43
	4062	CB	ARG				28.395		109.636		60.00
	4063	CG	ARG	В	876		28.796		110.592		61.19
	4064	ÇD	ARG	В	876		29.309		110.037		67.05
	4065	NE	ARG	B	876		30.770	11.823	110.044	1.00	.76.99
	4066	CZ	ARG				31.568	11.708	111.116	1.00	79.95
	4067	NH1	ARG	В	876		32.887	11.691	110.939	1.00	81.01
	4068	NH2	ARG	В	876		31.067	11.609	112.335		79.88
	4069	C	ARG	Ŗ	876		26.149	14.868	108.667	1.00	61.31
	4070	0.	ARG	В	876		25.336	14.774	109.576.	1.00	63.40
	4071	N	ALA	В	877		25.990	15.796	107.728	1.00	61.95
	4072	CA	ALA	В	877		24.782.	16.639	107.724	1.00	60.39
	4073	CB	ALA	В	877		25.142	18.071	108.099	1.00	61.56
	4074	C	ALA				24.104	16.542	106.334	1.00	60.30
	4075	0			877.		24.050	17.450	105.548	1.00	59.22
	4076	Ņ	PRO	В	878	-	23.522	15.391	106.110	1.00	60.43
		CA	PRO				23.006		104.833	1.00	60.78
	4078	CB	PRO	В	878		22.159		105.162	1.00	60.53
	4079	CG			878		22.572		106.396	1.00	59.55
	4080	CD	РР	В	878		23.223	14.408	107.159	1.00	61.36

	Α	В	C	D	Е		F		Ģ	H	I	J
	4081	С	PRO	В	878		22.093	16.	025	104.243	1.0Ò	60.68
	4082	0 -	PRO	В	878		21.843	15.	907	103.015	1.00	60.12
	4083	N	ASP	В	879		21.492	16.	.871	105.081	1.00	59.38
	4084	CA	ASP	В	879		20.644	17.	. 925	104.532	1.00	59.16
	4085	CB	ASP	В	879		19.959	18.	.741	105.618		59.04
	4086	CG	ASP		879		18.427			105.571		66.19
	4087	oD1	ASP				17.726			105.290		72.48
	4088		ASP				17.829			105.707		71.81
	4089		ASP				21.462			103.603	1.00	
	4090	0	ASP				20.981			102.590	1.00	57.64
	4091	N	SER		880		22.716			103.975	1.00	56.33
	4092	CA	SER				23.644			103.267		54.79
	4093	CB	SER			• •	24.929			104.005	1.00	55.24
	4094	OG -	SER.				25.622			103.690	1.00	55.50
	4095	C			880		23.879			101.868		54.99
		.0			880	•	24.507			101.077	1.00	
	4097	N	LEU		•		23.348			101.566		55.55
	4098	CA	LEU				23.478			100.243		56.64
	4099	CB	LEU		881		23.957			100.370		55.16
	4100	CG	LEU			,	25.385			100.877		47.41
	4101		LEU							101.097		44.25
	4102		LEU				26.234		.645	99.827		38.61
	4103		LEU				22.260		.570	99.338		60.26
	4104		LEU				22.311		.141			
	4105	N	ALA				22.311		.068			64.54
	4106	CA	ALA		882		19.923		.077	99.007		66.81
	4100	CB	ALA				18.619		.004	99.875	1.00	66.76
	4108	C	ALA				19.875		.245	98.028		68.16
	4109		ALA				19.531		.064	96.866		69.24
	4110	N .	ALA				20.126		.446			68.60
	4111	CA	ALA				20.126		.591	97.630	1.00	
	4112	CB	ALA				20.323		.901	98.461		69.49
	4113	C ·	ALA				21.685		.361	96.886		69.14
	4114	0			883		21.818		.511	95.652		68.44
	4114		ATP				46.712		.440			89.49
	4147	PA	ATP				45.850		.328			84.33
	4148		ATP				45.830		.113		1.00	78.95
	4149		ATP				46.316		.240	84.993		89.69
•	4150 4151	PB O1 B	ATP ATP				47.730 48.070		.566 .089	84.575 83.230		98.93 99.05
	4151		ATP				48.948		.908			95.56
•	4153					* .	47.340		.025			
	4154	PG	ATP ATP				47.340			84.490 84.344		97.61
									,			L01.51
	4155 4156		ATP				45.916 45.159		.031	83.685		97.15
	4156		ATP									95.81
	4158		ATP				44.985		.323	83.475		99.53
							44.345		.779 .806	86.226		81.43
	4159		ATP				44.056			85.310		76.05 72.65
	4160 4161		ATP				42.586		.122	85.531		
	4161		ATP				42.294		.396	86.149		66.71
			ATP				41.362		.132	•		60.60
	4163	CZ*.	ATP	В-	ĻUUI		40.769	-3	.740	86.836	T.00	62.85

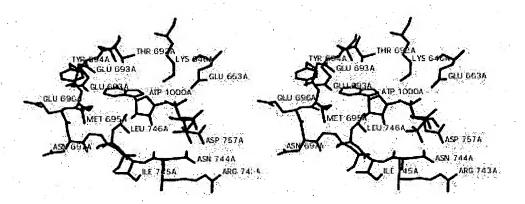
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A	В	C	D E		F	G	Н	I	Ţ	
4164	Q2 *	ATP	B1001		40.111	-3.694	85.576	1.00	60.83	
4165	C3*	ATP	B1001		42.005	-3.004	86.424	1.00	67.86	
4166	03*	ATP	B1001		41.724	-1.884	85.612	1.00	68.16	
4167	N9	ATP	B1001		42.167	-5.202	88.434	1.00	53.63	
4168	C8	ATP	B1001		43.500	-4.813	88.655	1.00	53.17	
4169	N7	ATP	B1001		43.833	-5.108	89.970	1.00	50.95	
4170	C5	ATP	B1001	в .	42.701	-5.612	90.619	1.00	46.80	
4171	C6	АТР	B1001		42.436	-6.005	91.949	1.00	44.40	
4172	N6 -	ATP	B1001		43,.185	-5.600	93.067	1.00	37.97	,
4173	C4	ATP	B1001		41.684	<b>-</b> 5.687	89.652	1.00	48.42	
4174	N3	ATP	B1001		40.432	-6.108	89.965	1.00	44.97	
4175	C2	ATP	B1001		40.181	-6.529	91.253	1.00	46.46	
4176	N1	ATP	B1001		41.180	-6.522	92.179	1.00	41.31	

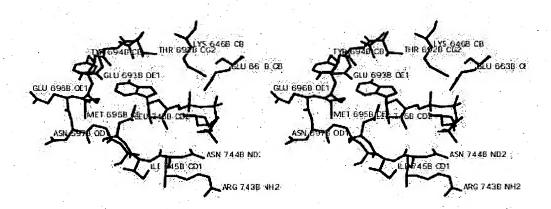
# FIGURE 4



# FIGURE 5A



### FIGURE 5B



#### FIGURE 6

